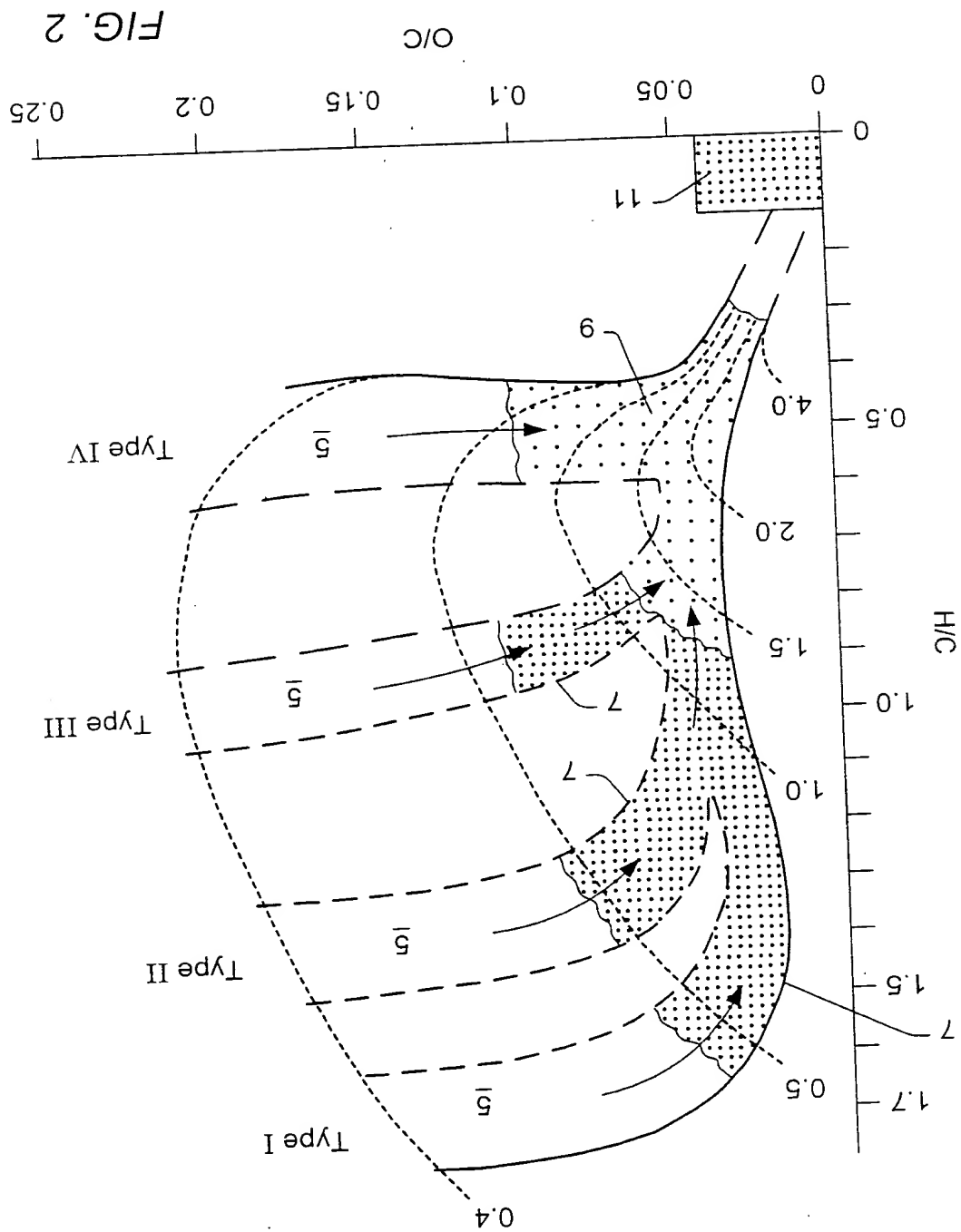
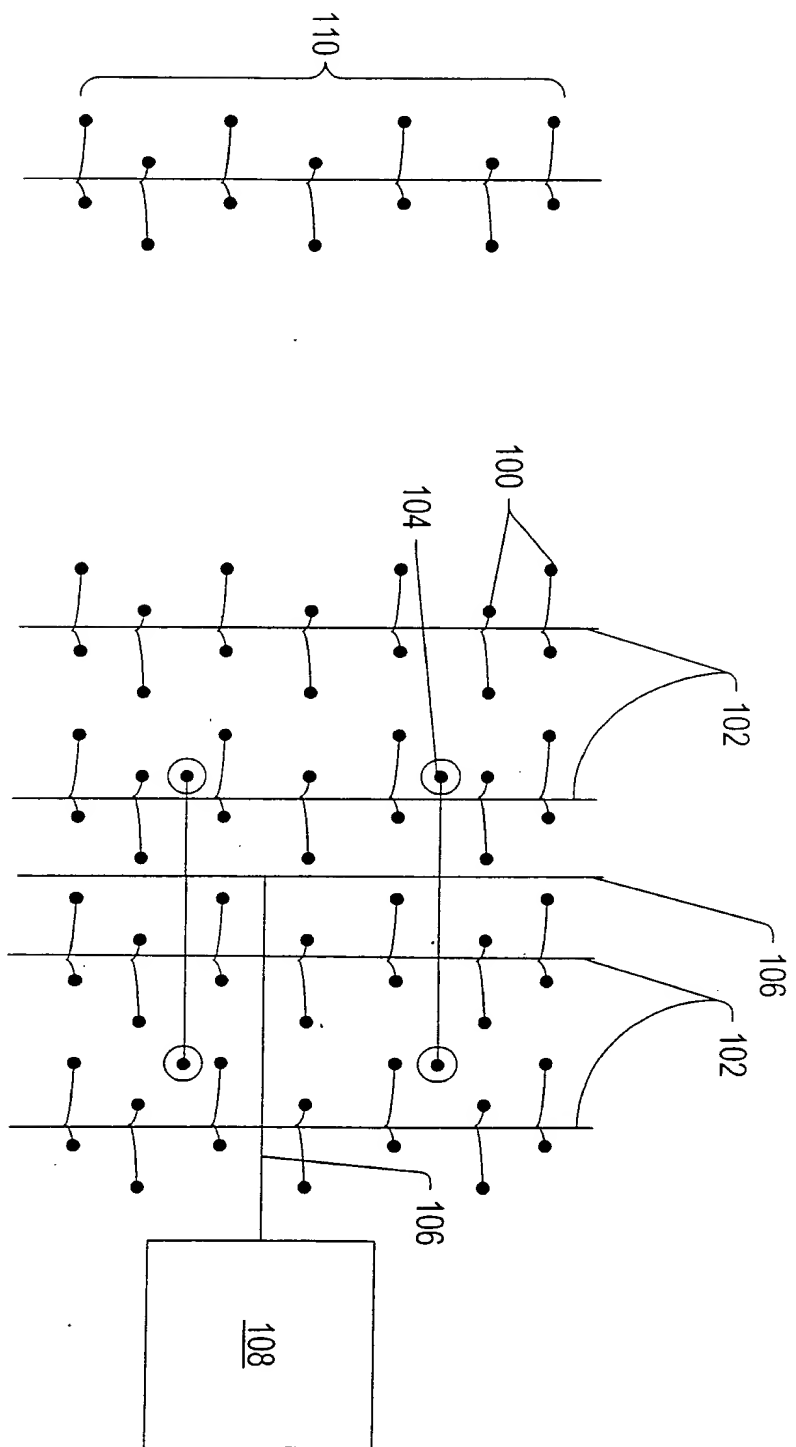


FIG. 1





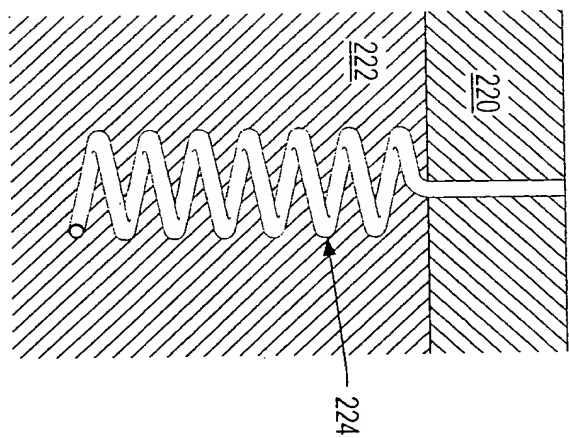


FIG. 3a

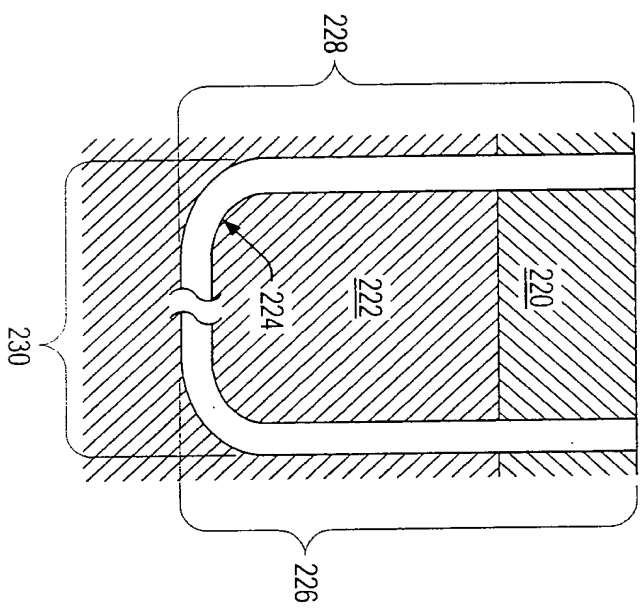


FIG. 3b

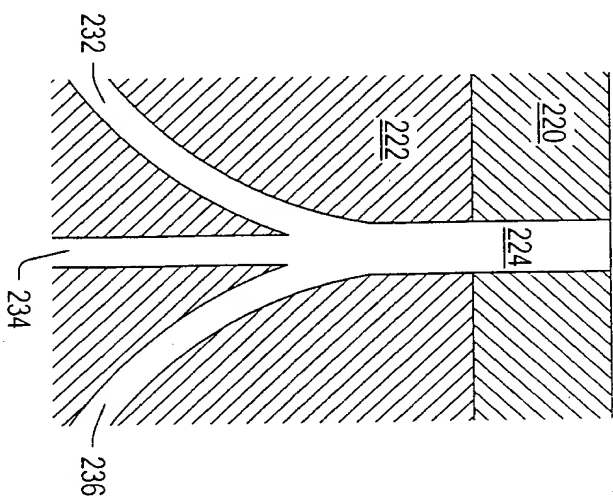


FIG. 3c

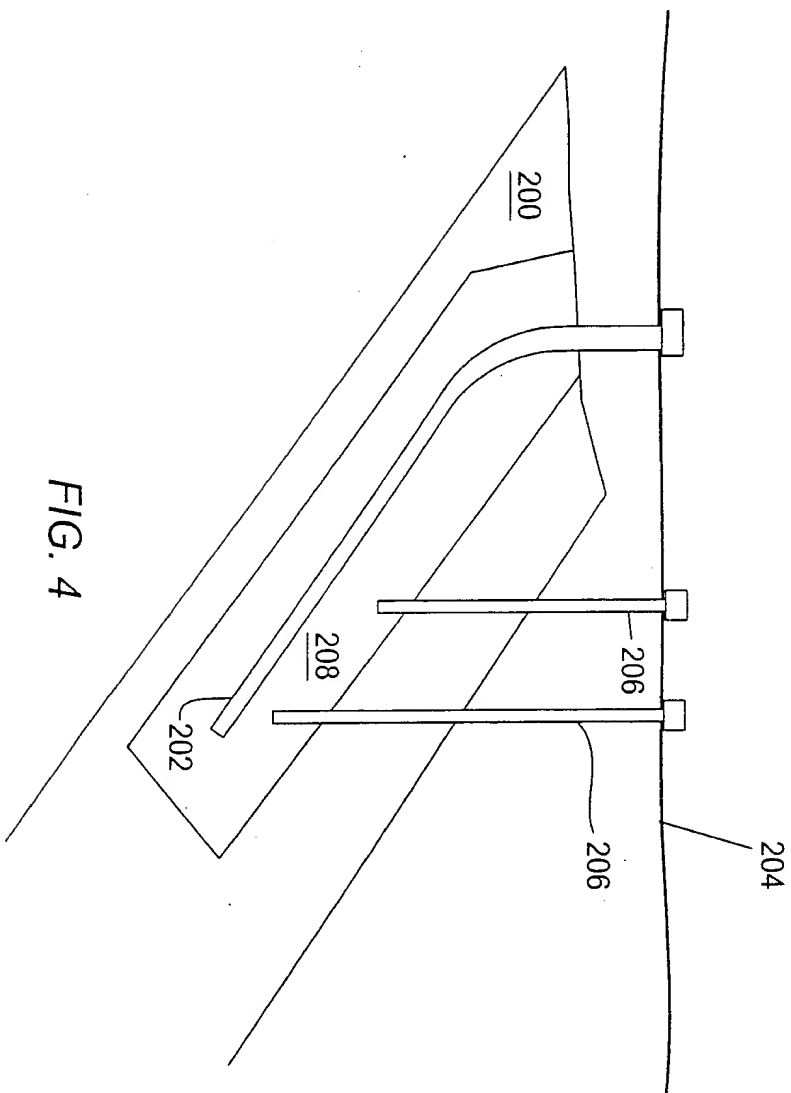


FIG. 4

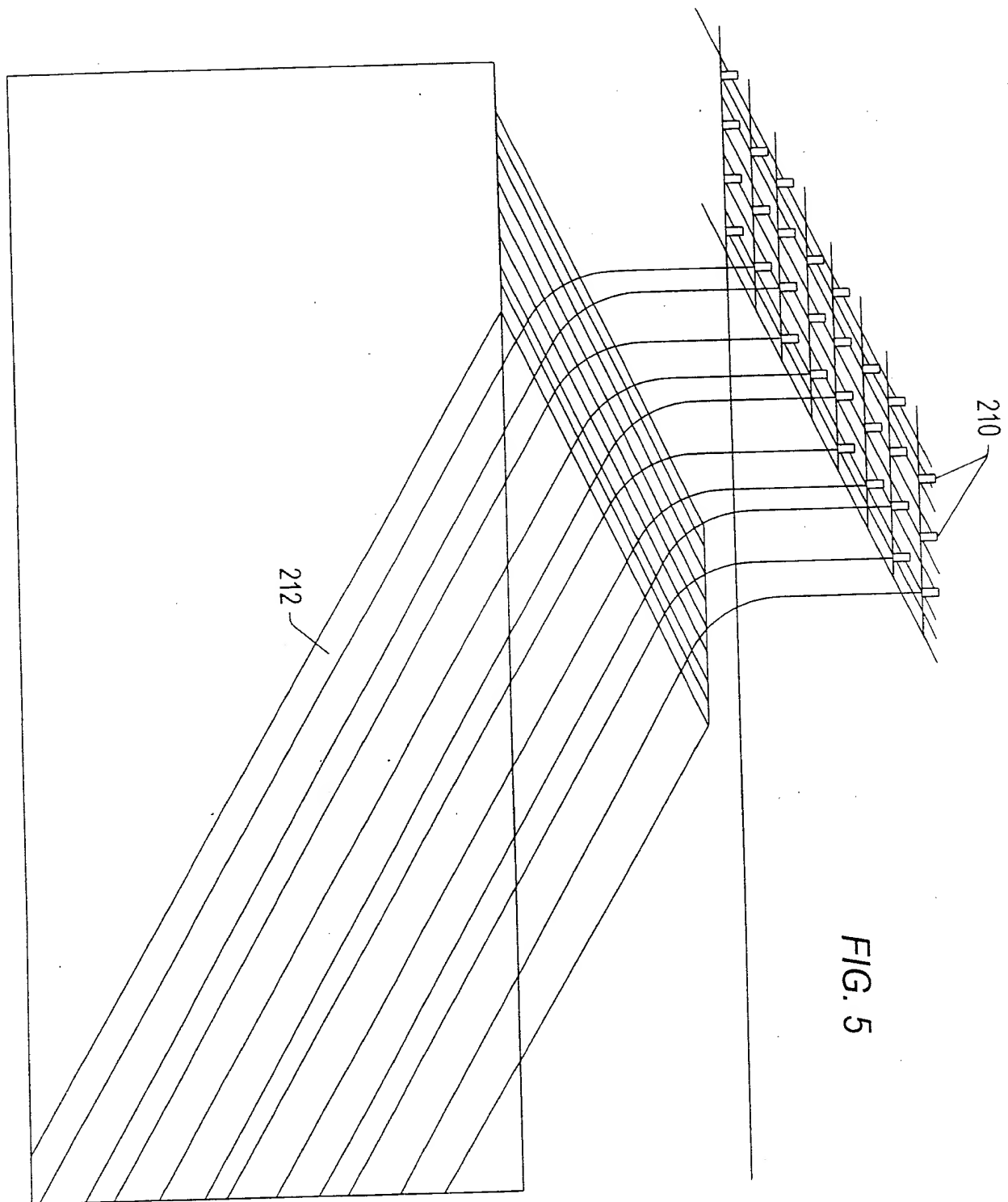


FIG. 7

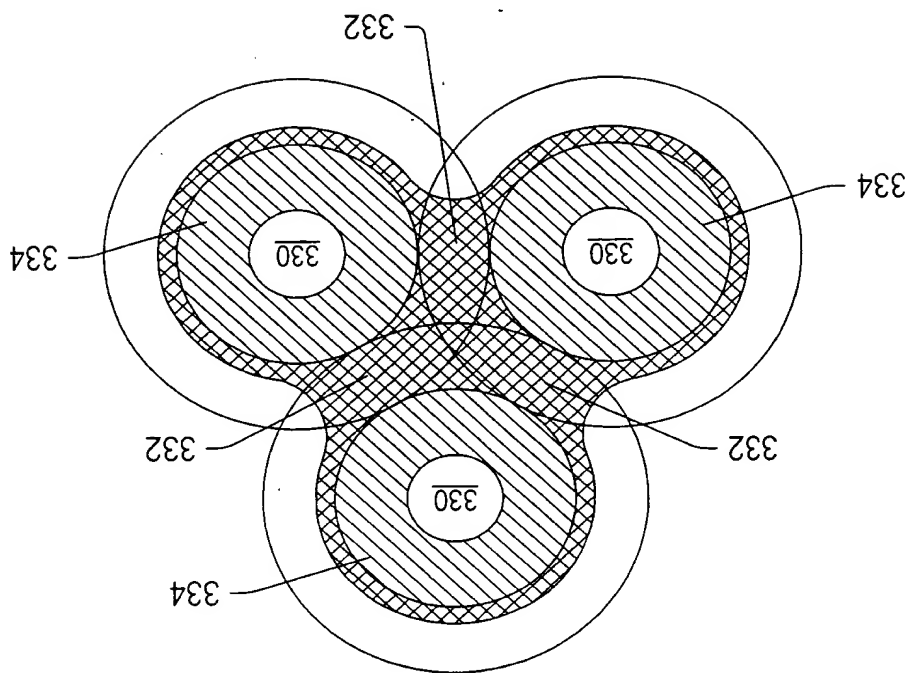
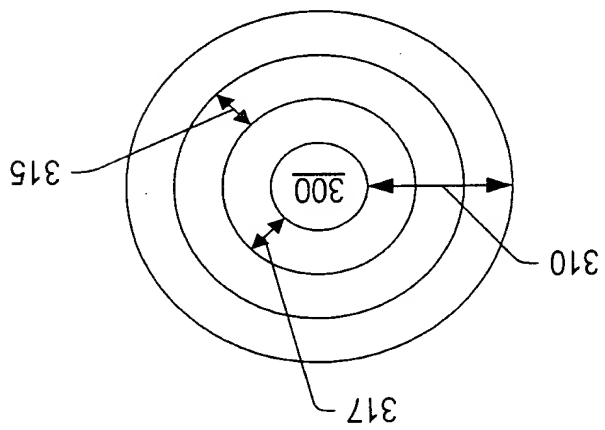


FIG. 6



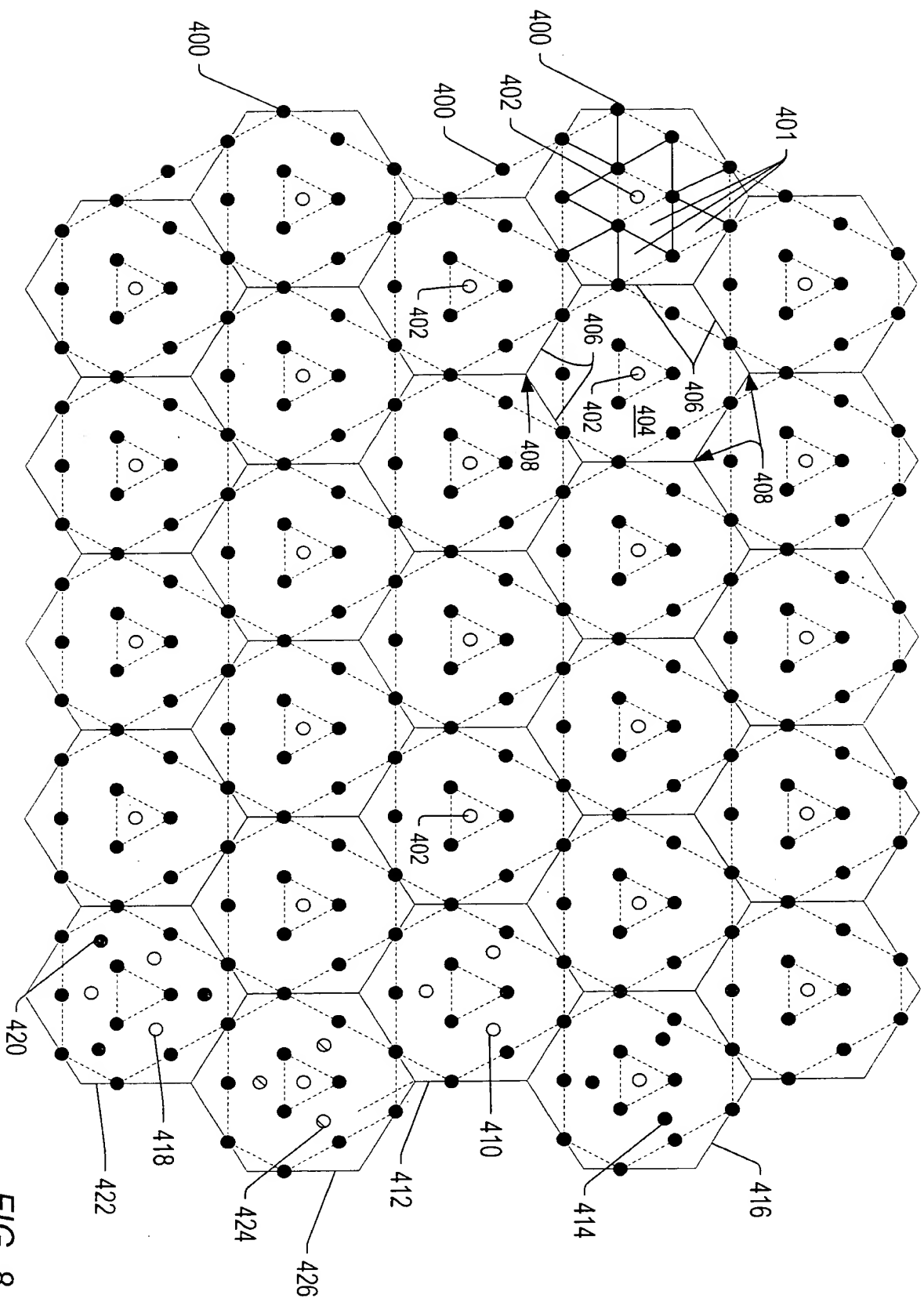


FIG. 8



FIG. 9 is a schematic diagram of a hexagonal lattice structure.

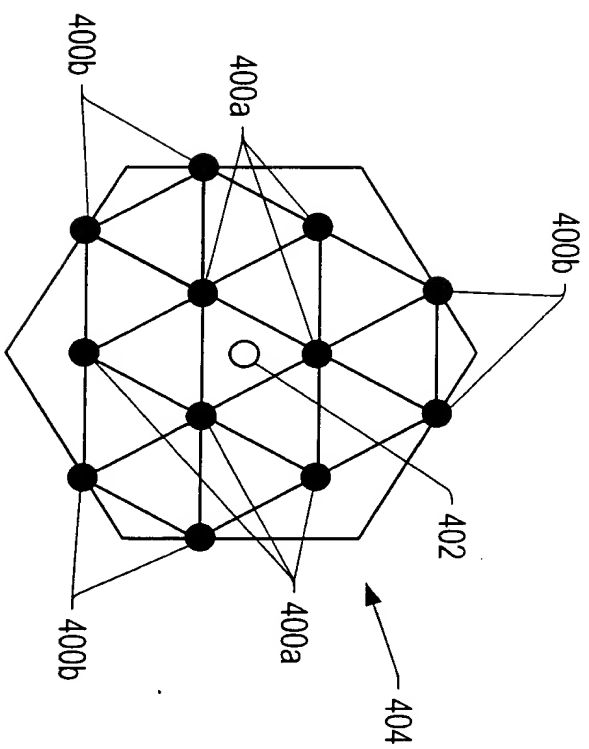


FIG. 9

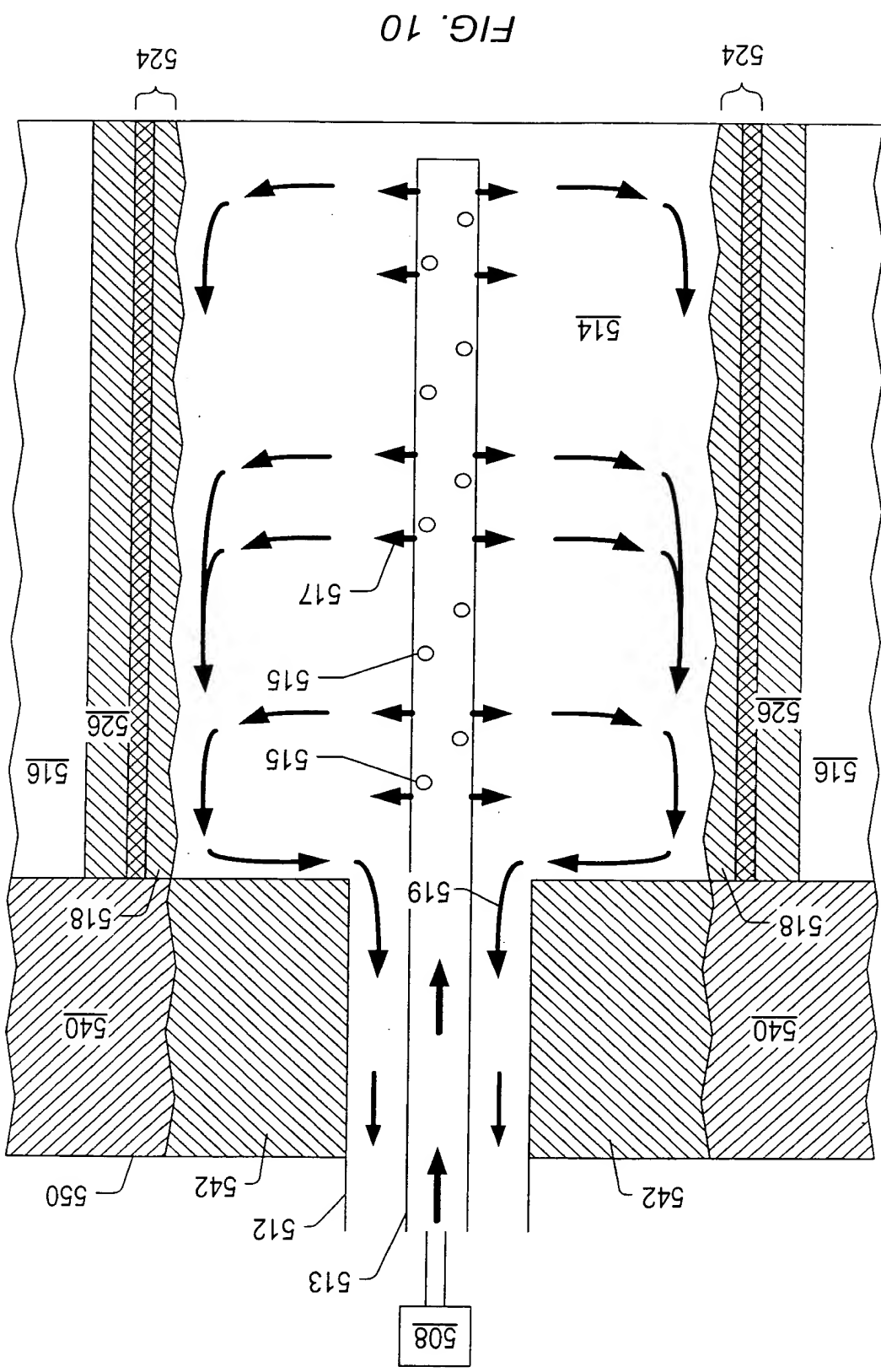


FIG. 12

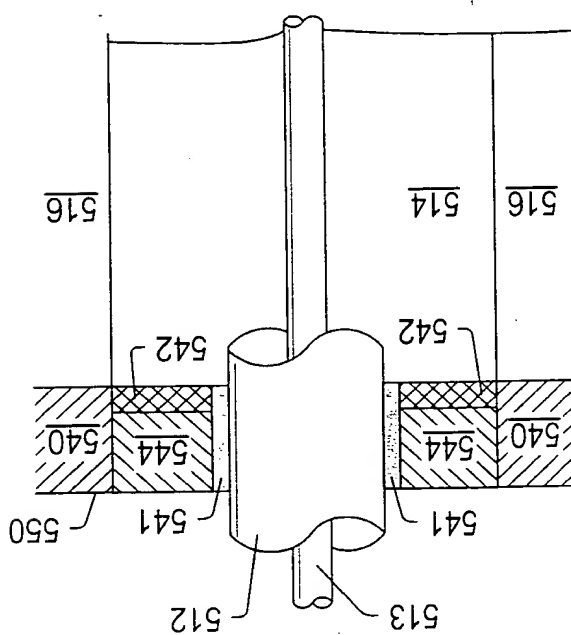
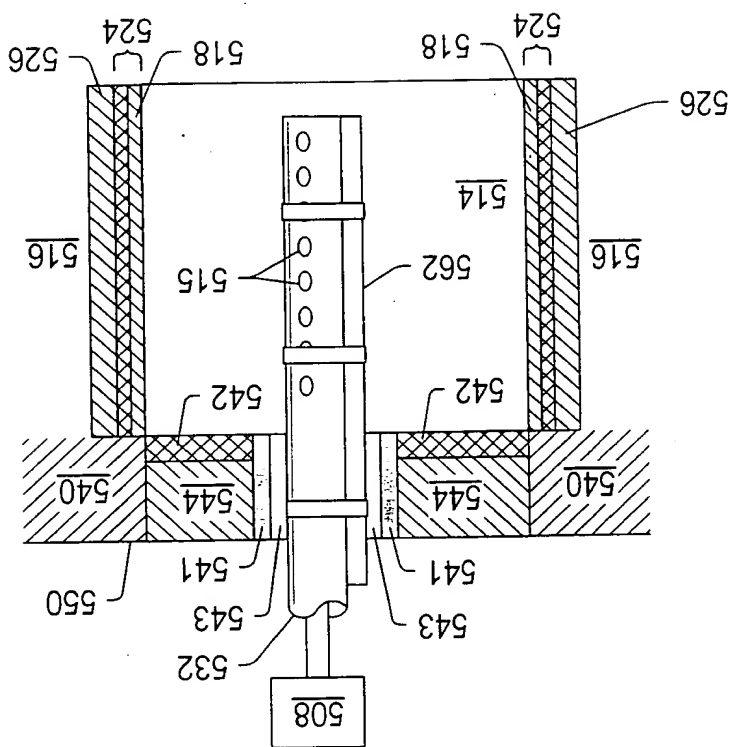


FIG. 14

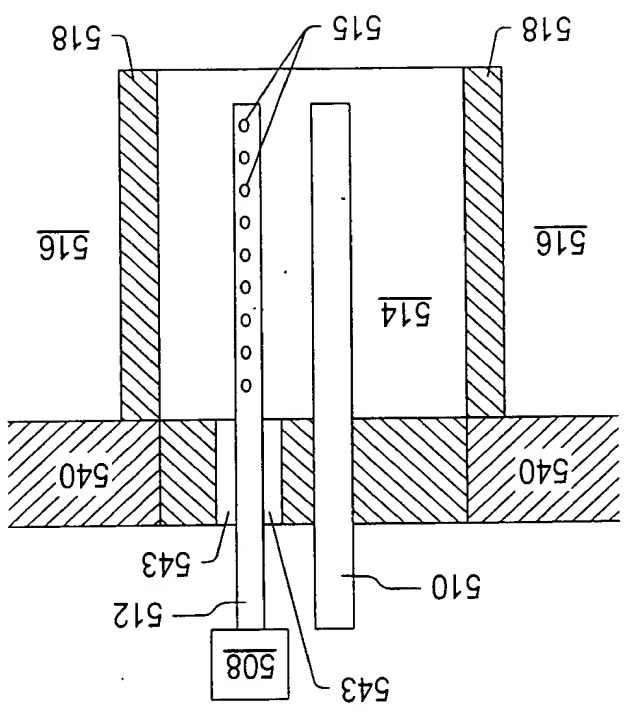
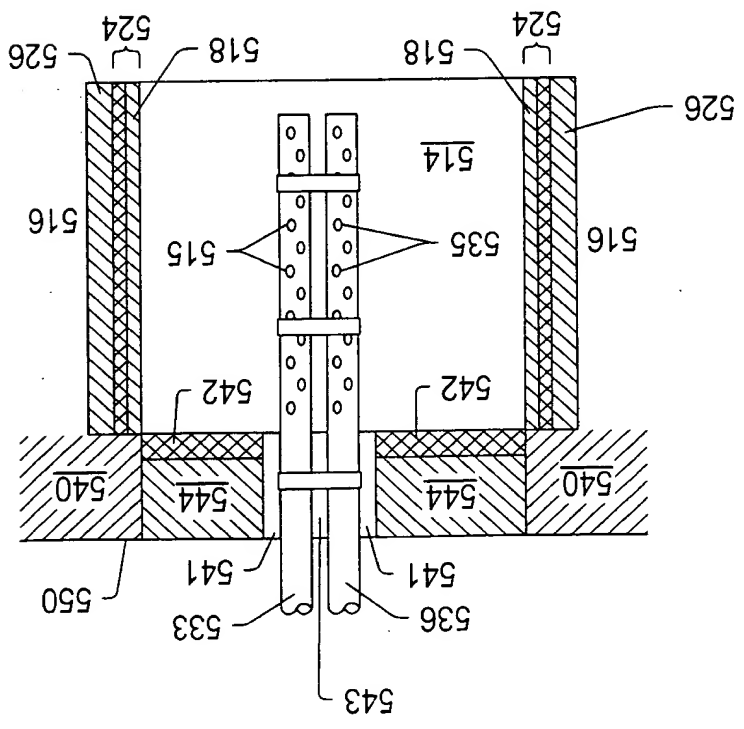
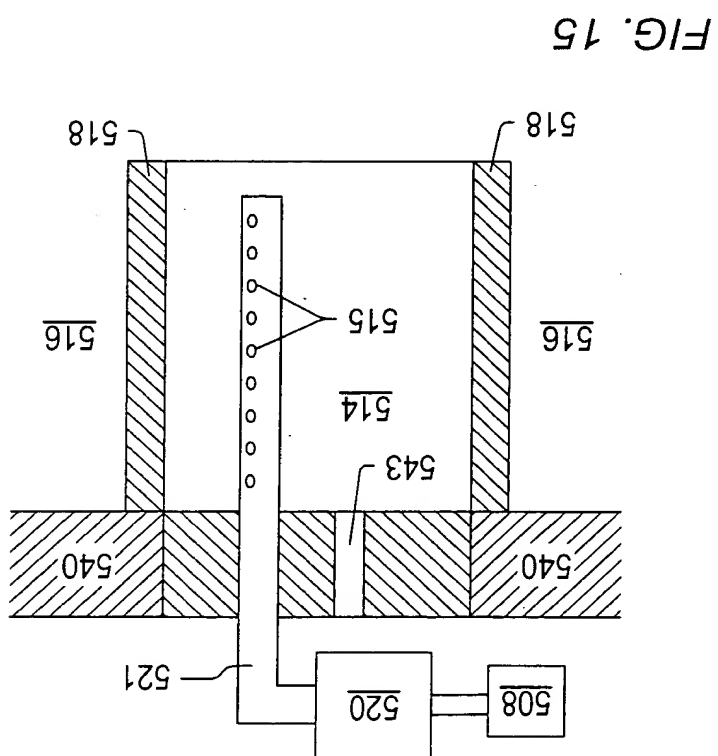
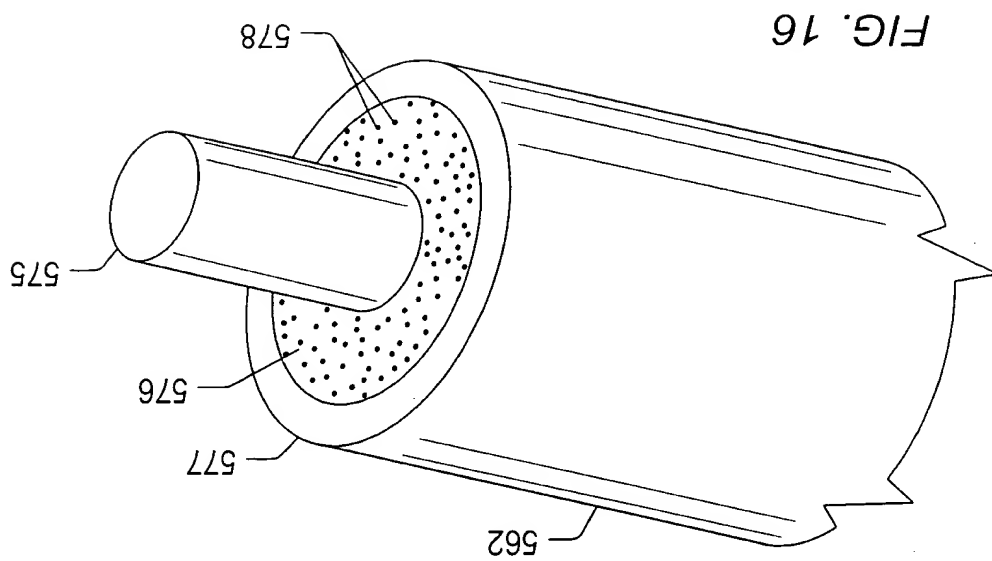


FIG. 13





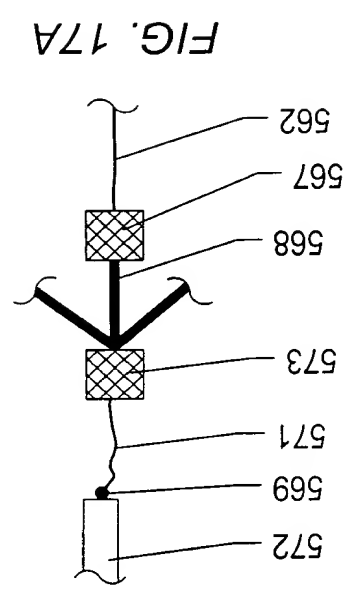
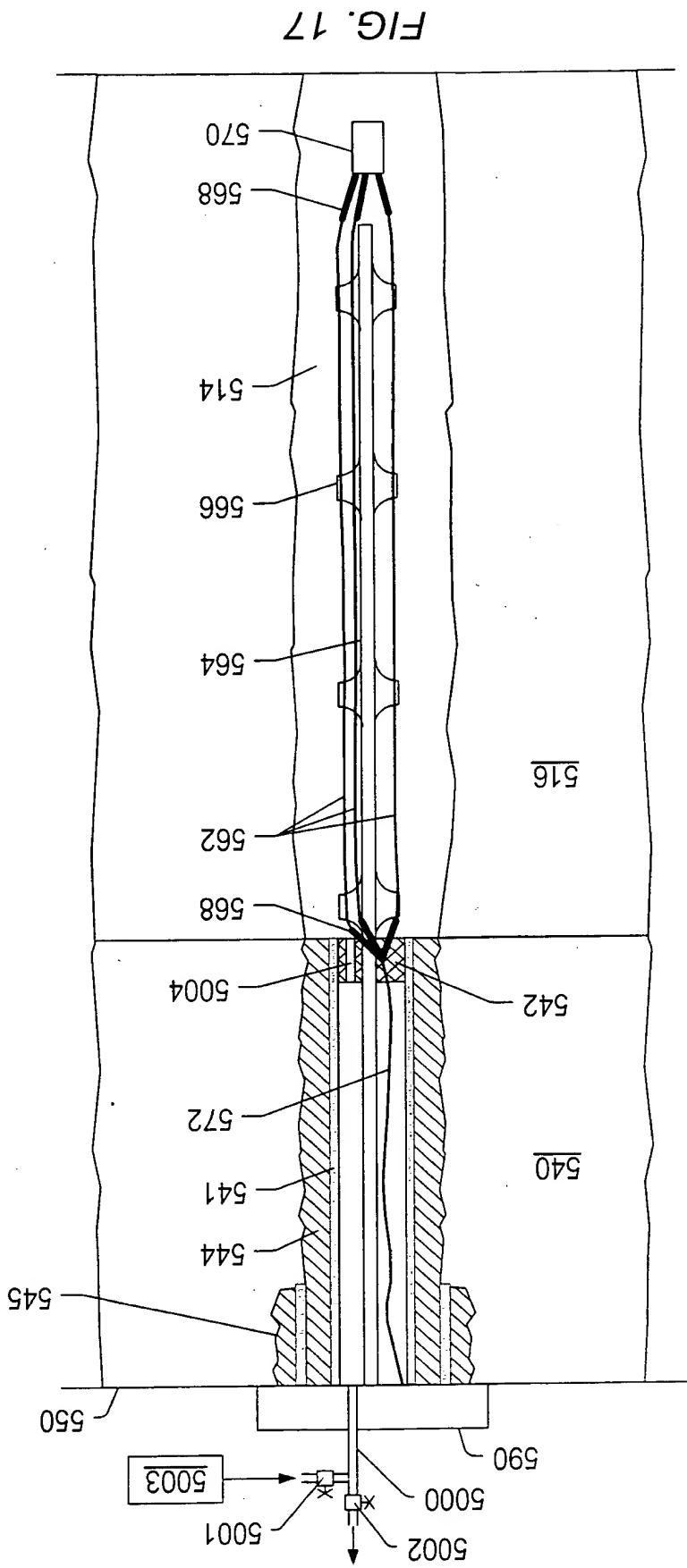


FIG. 17

FIG. 17A

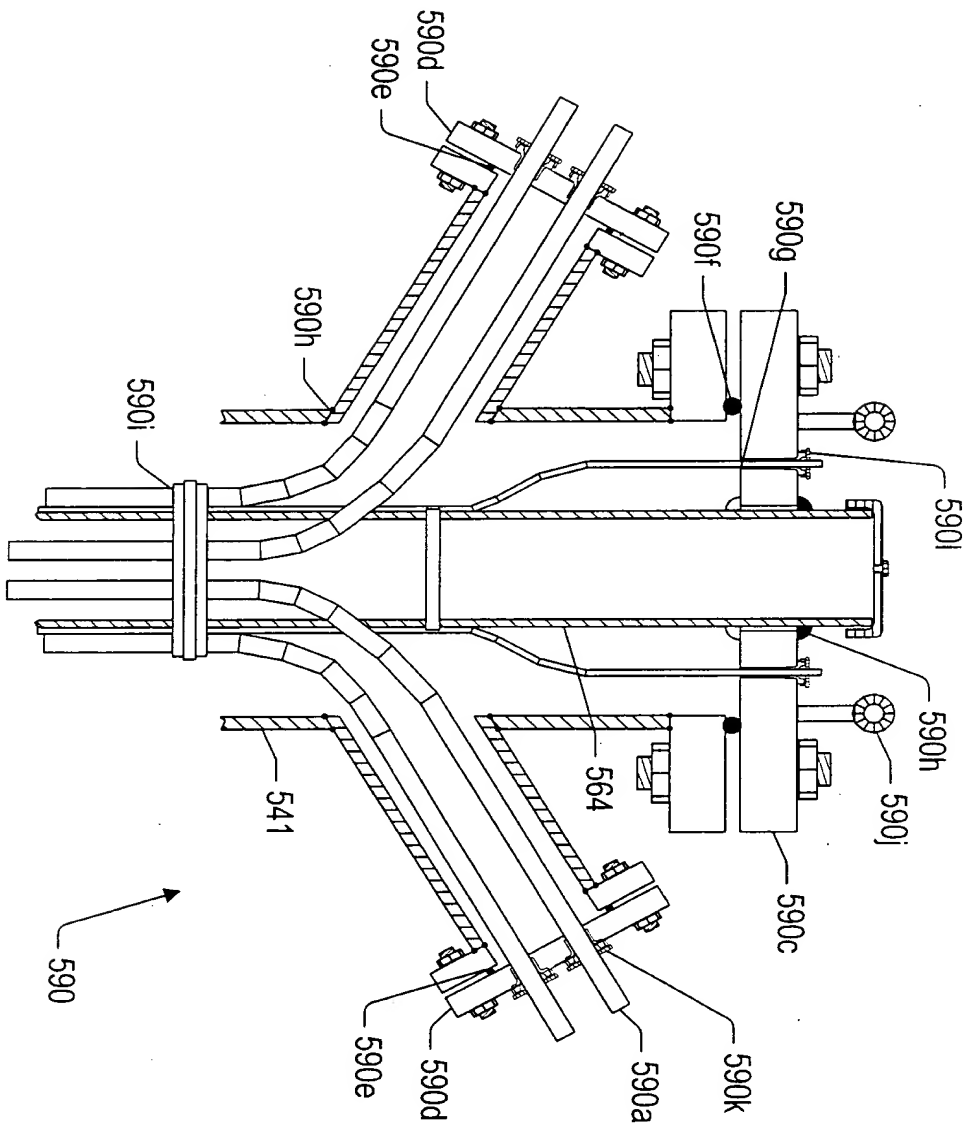
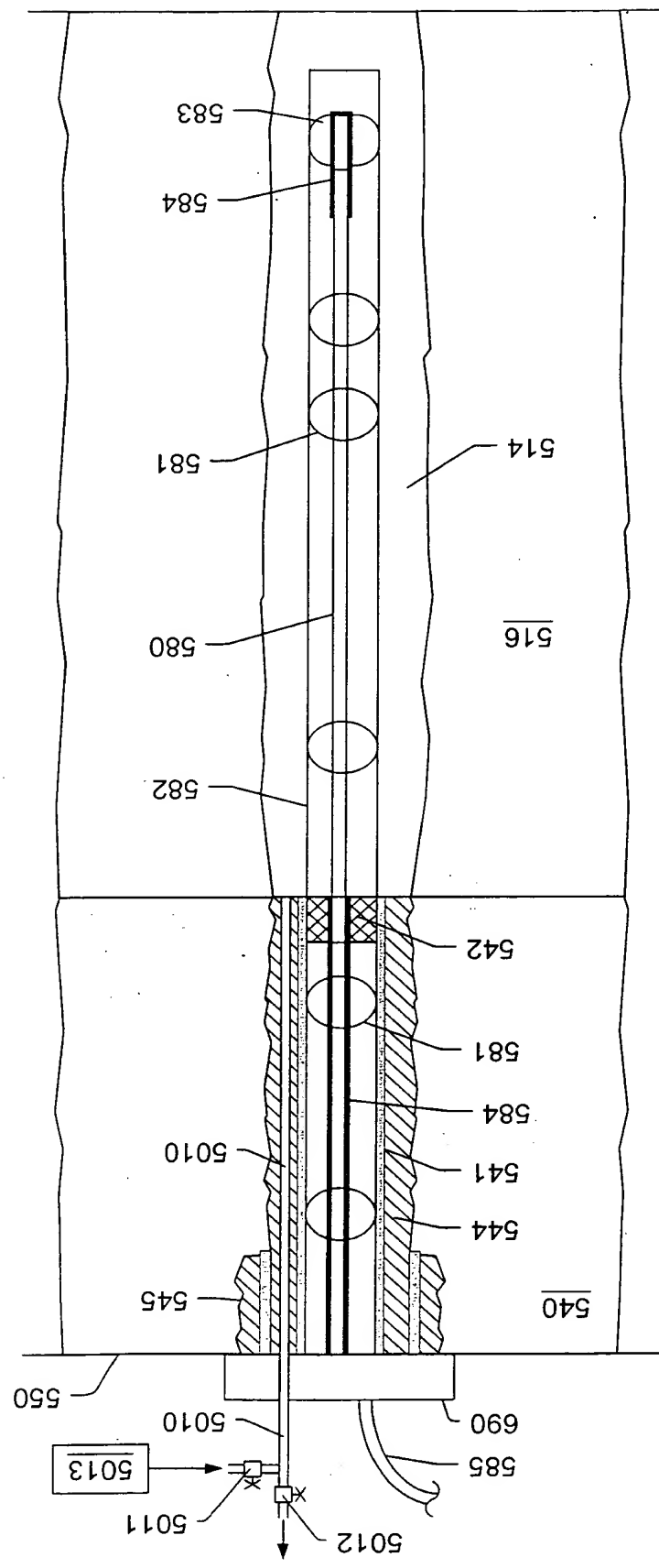


FIG. 18

FIG. 19





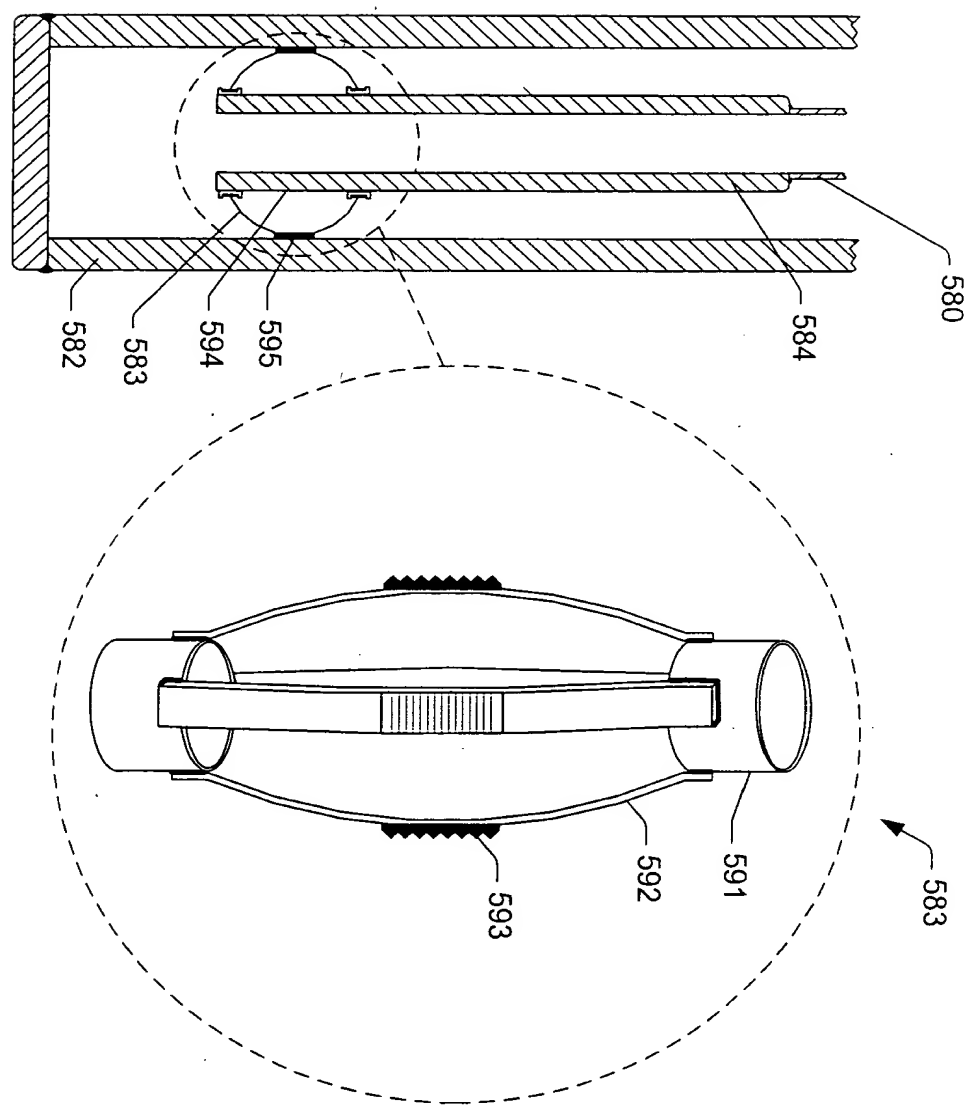
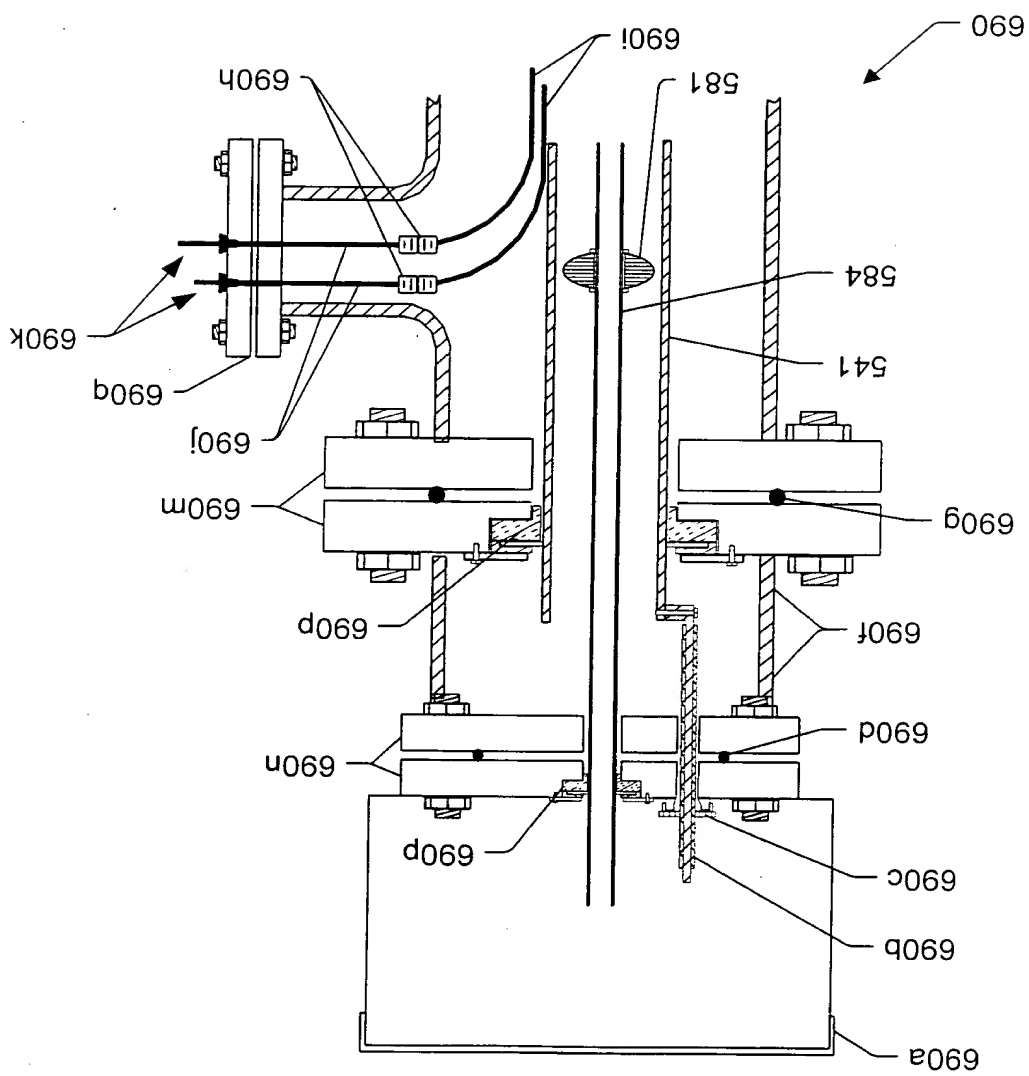


FIG. 20

FIG. 21



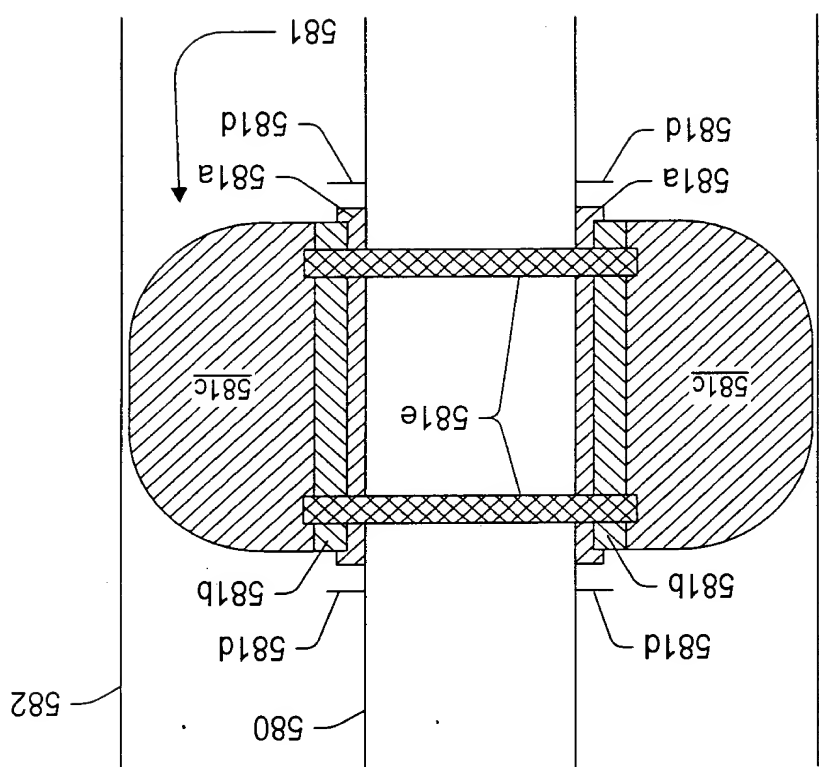


FIG. 22

FIG. 23b

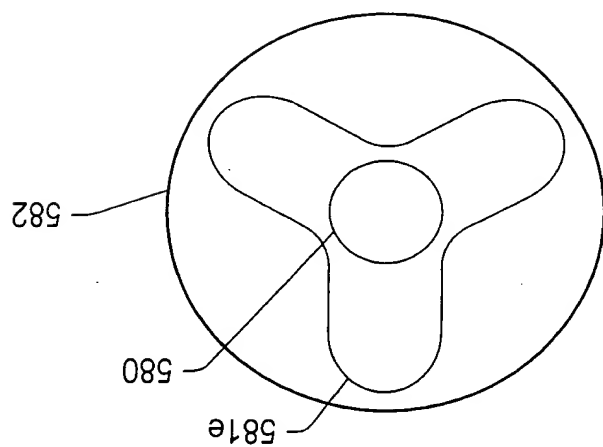


FIG. 23a

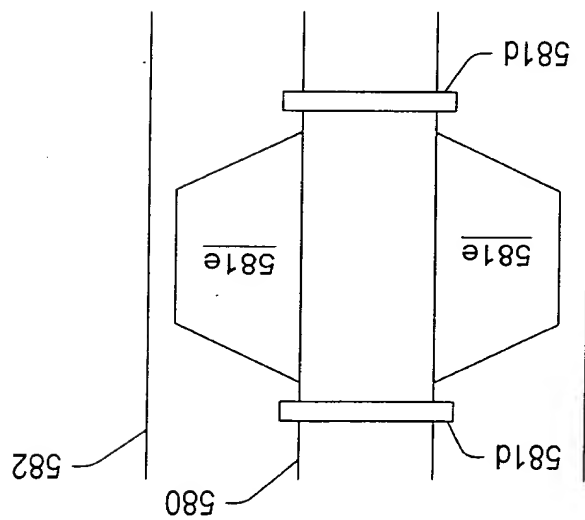


Fig. 24

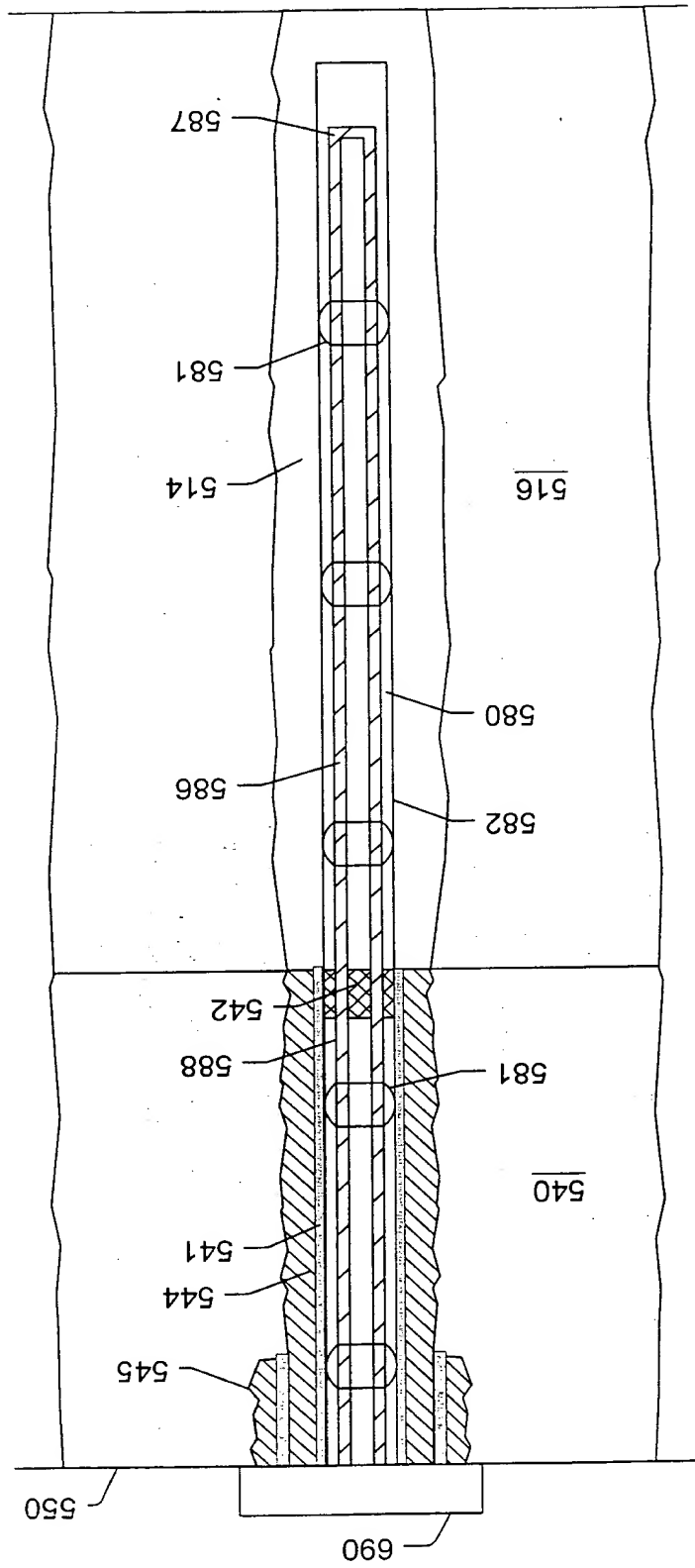


FIG. 25

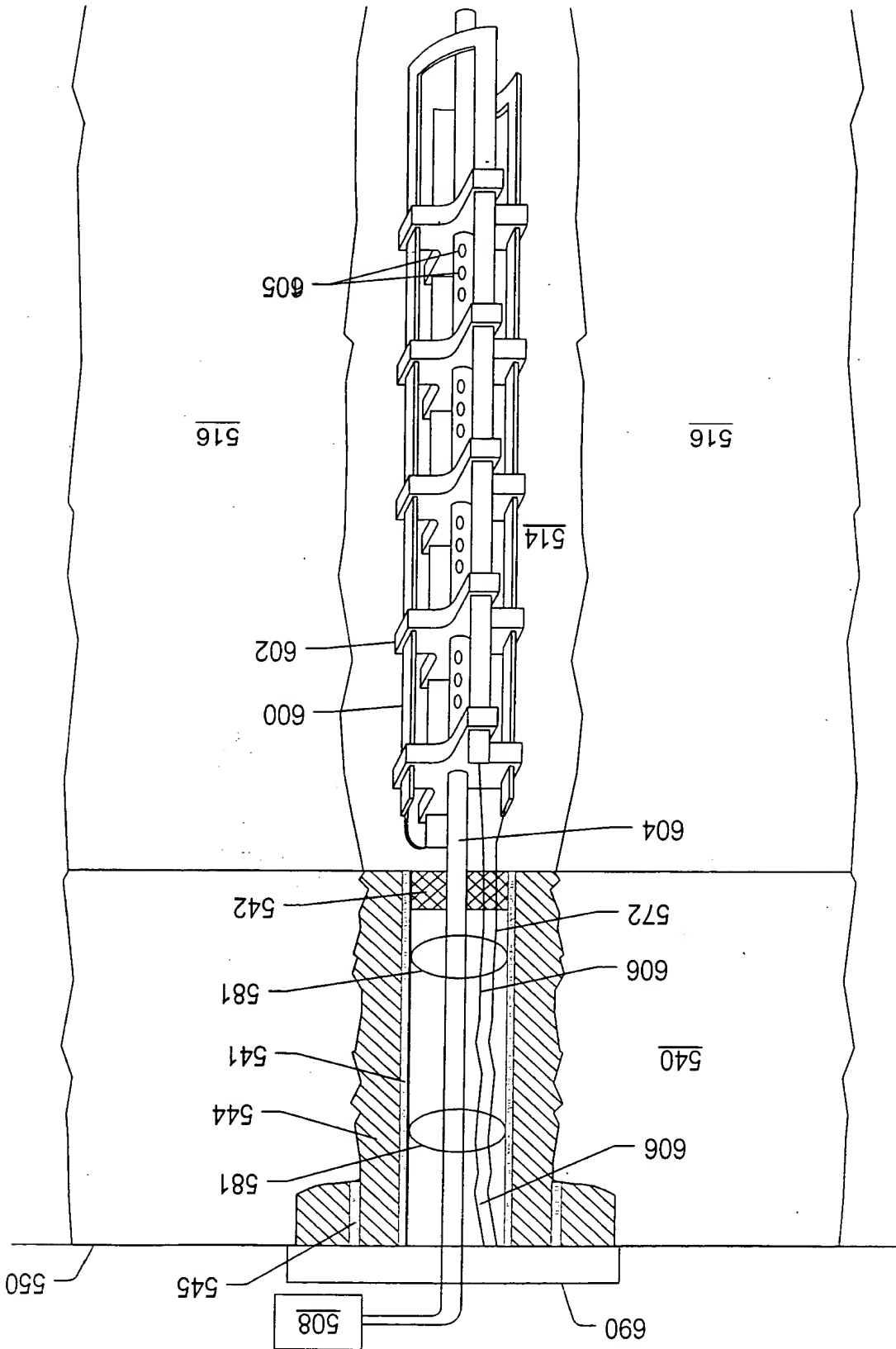


FIG. 26

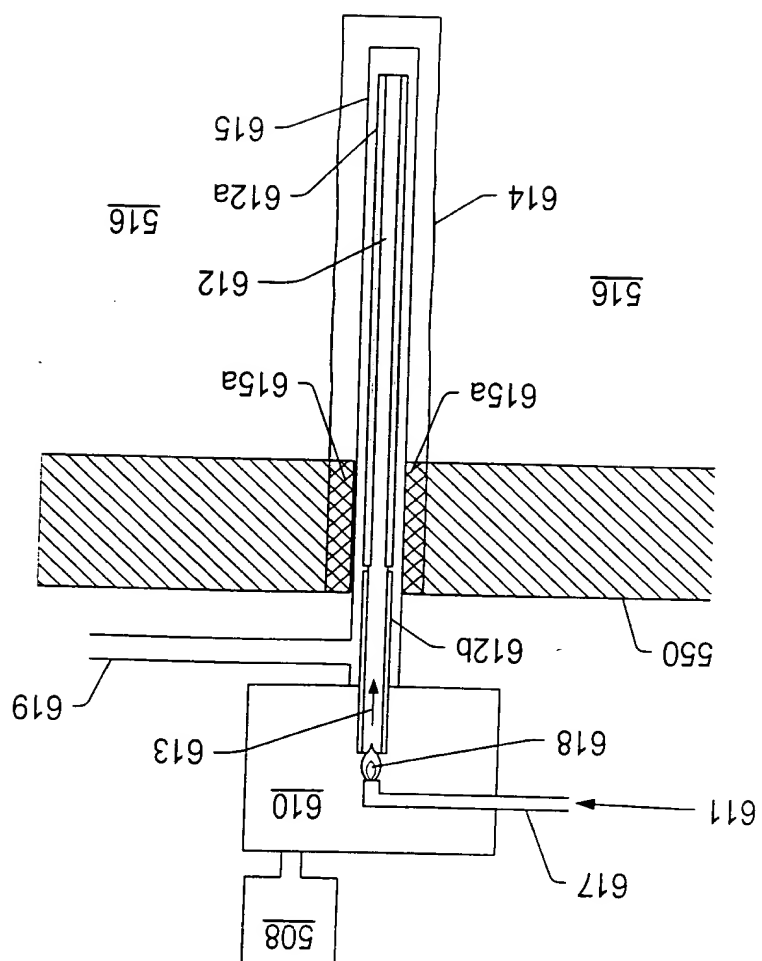


FIG. 27

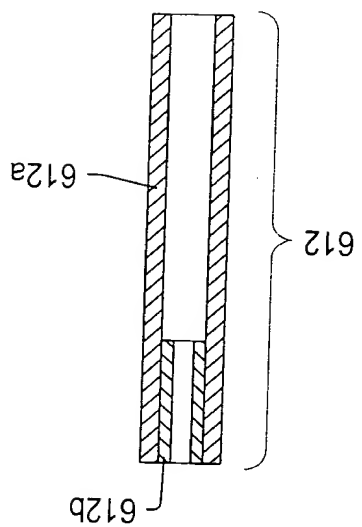


FIG. 28

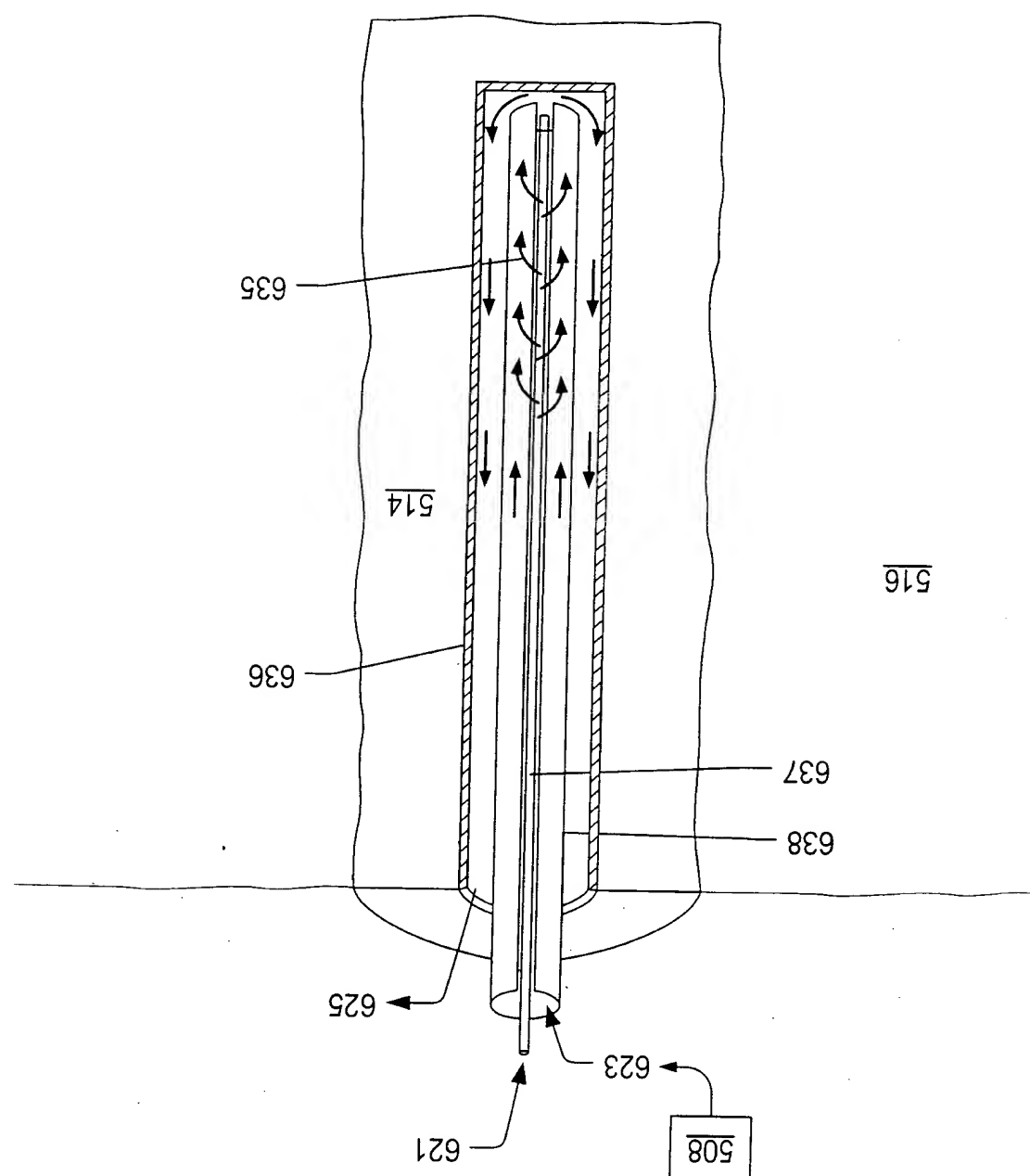


FIG. 28



FIG. 30

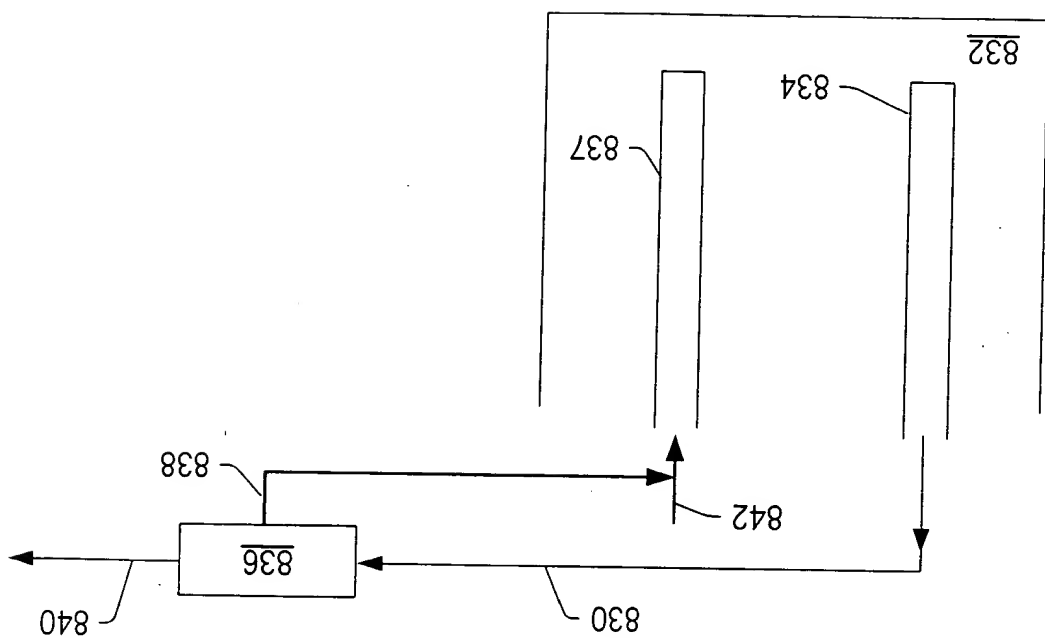


FIG. 29

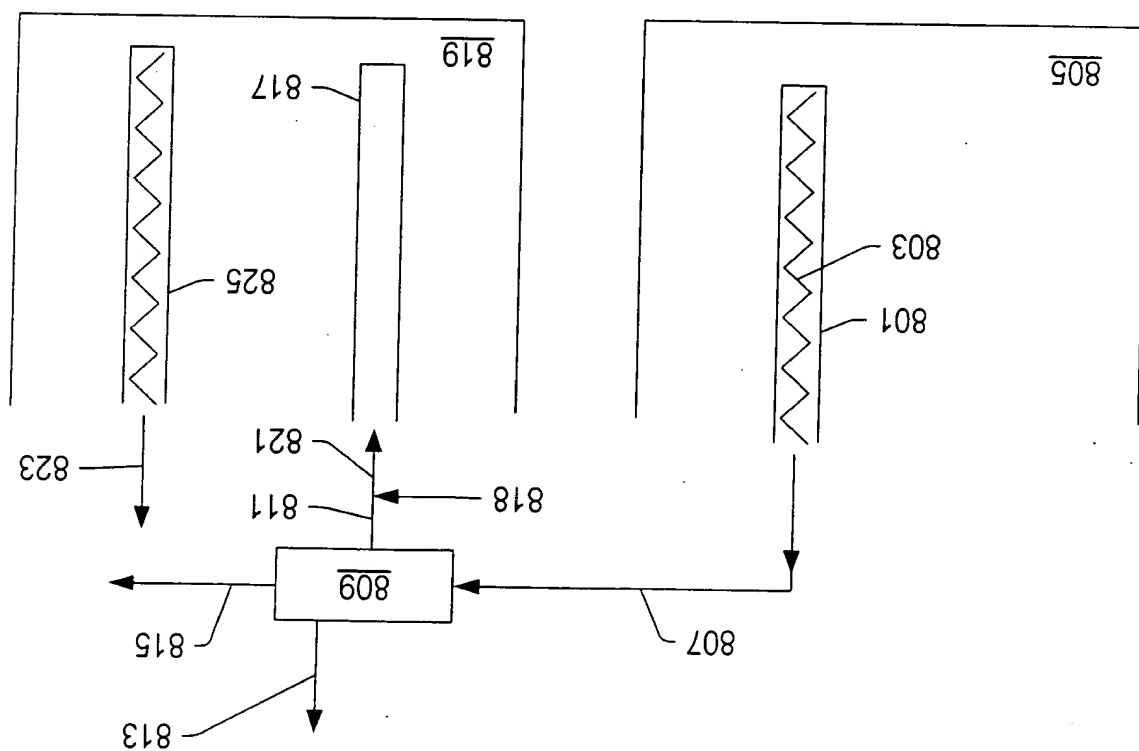


FIG. 32

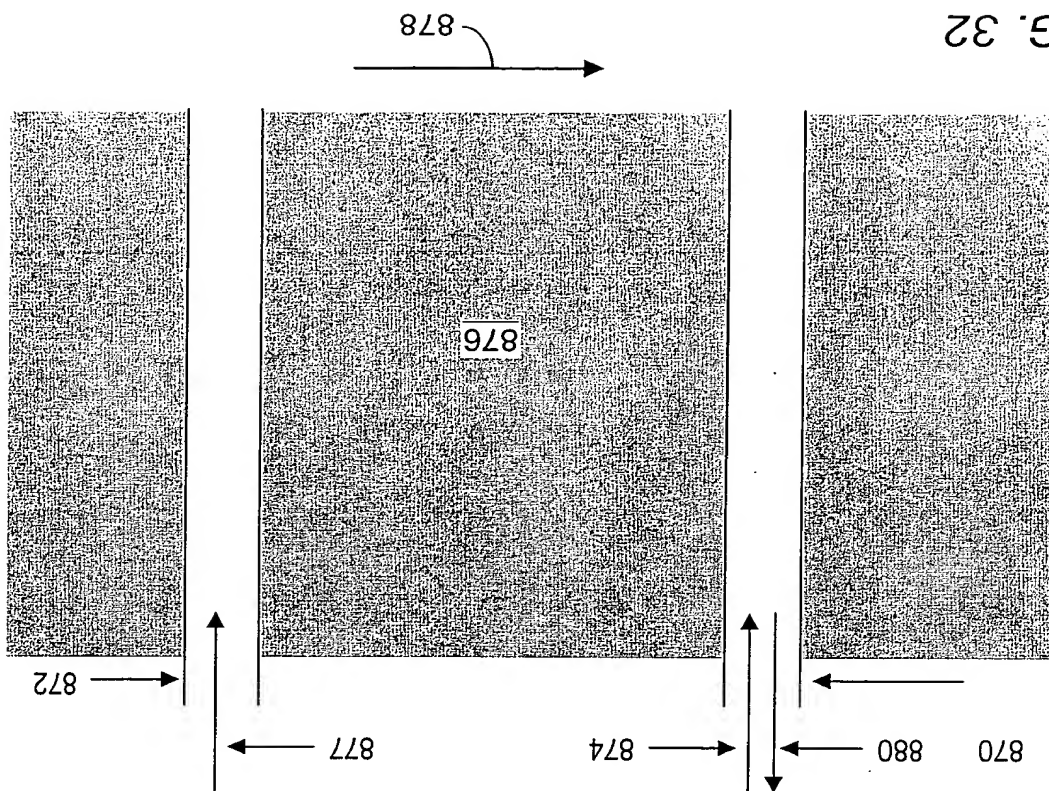


FIG. 31

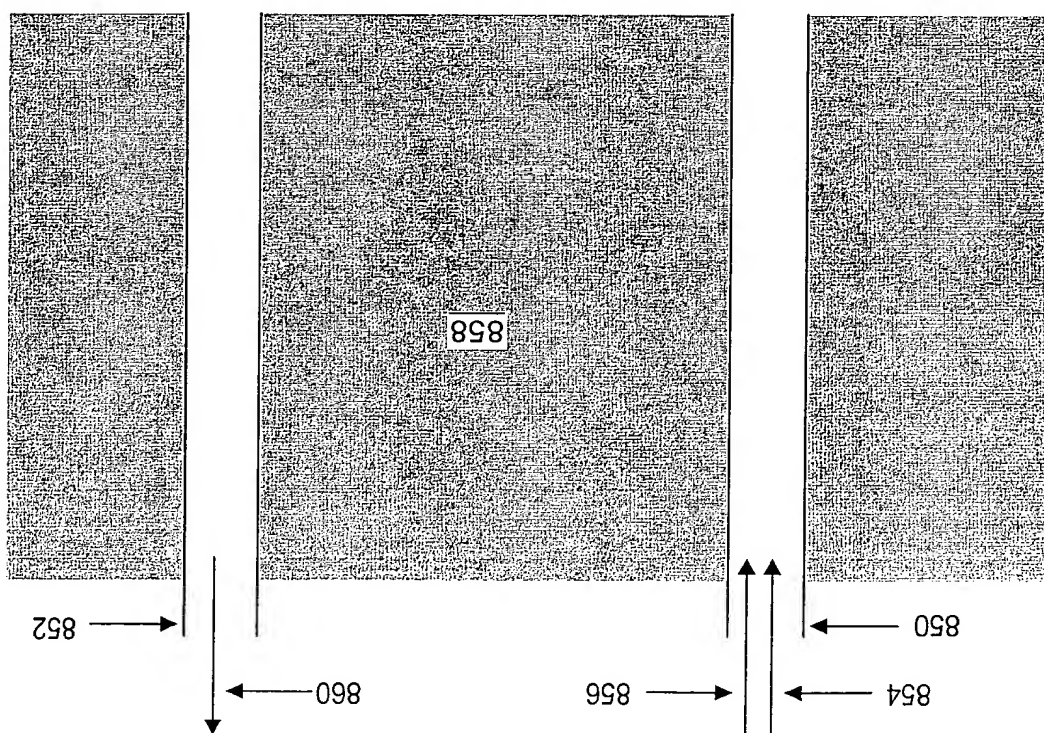


FIG. 34

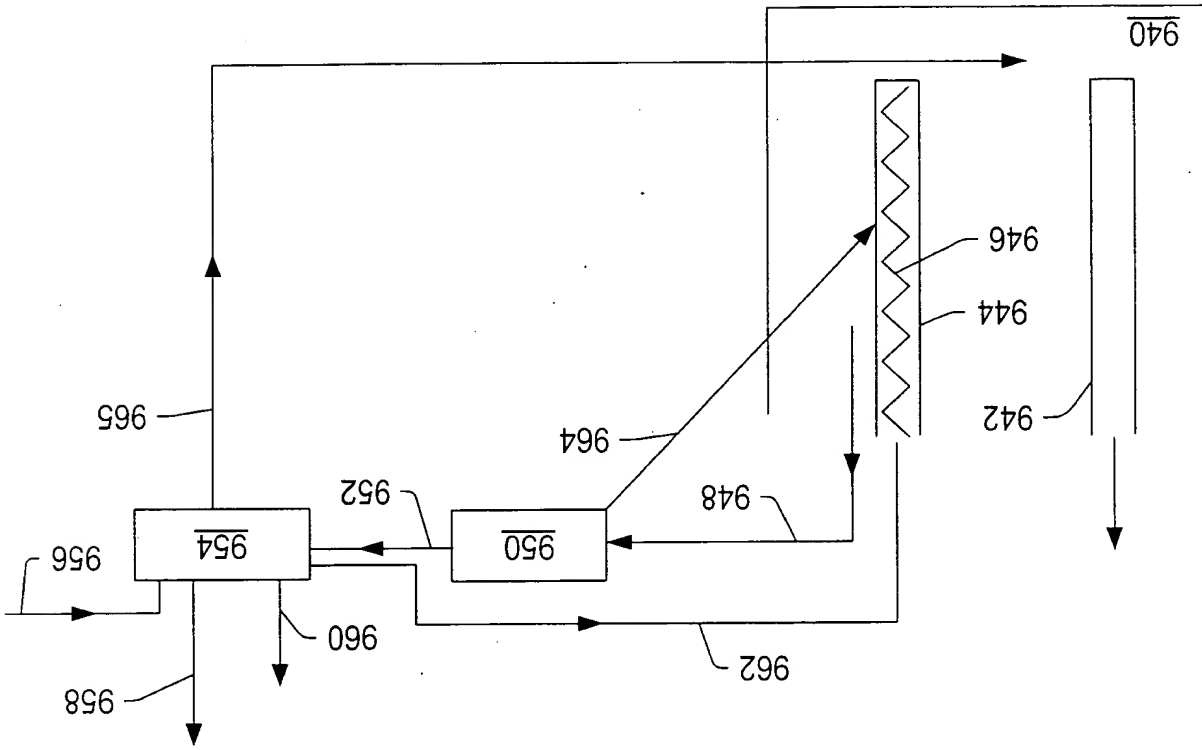


FIG. 33

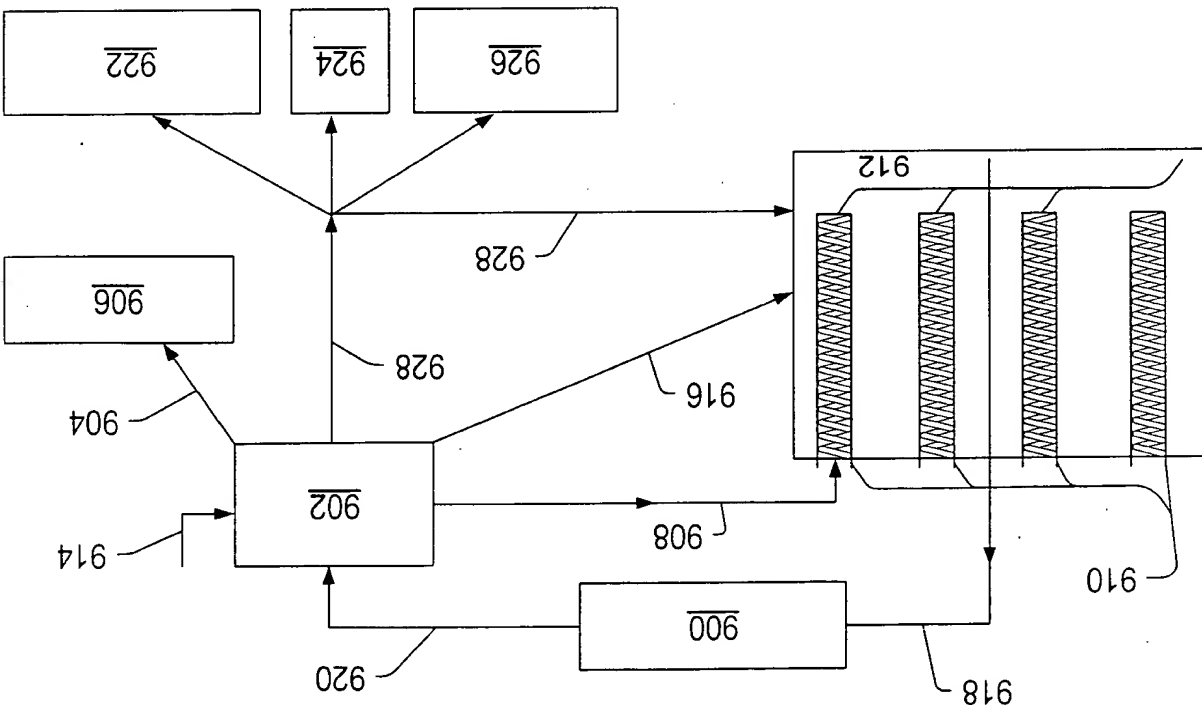


FIG. 36

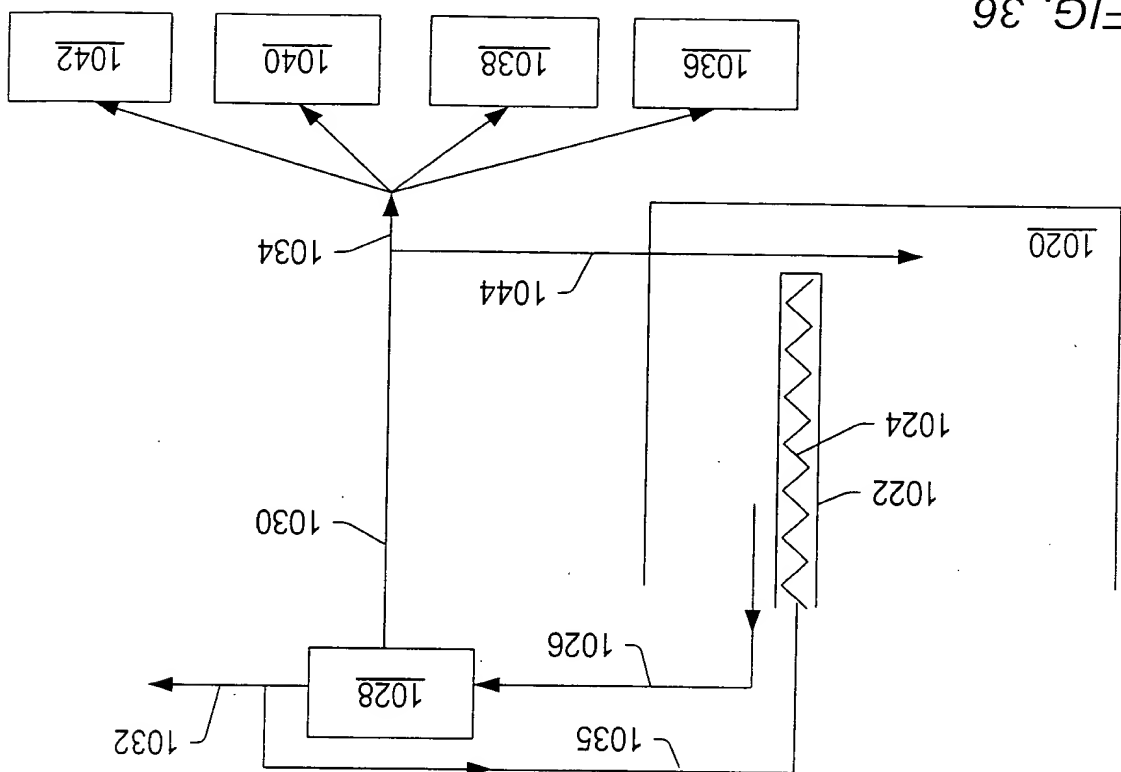


FIG. 36

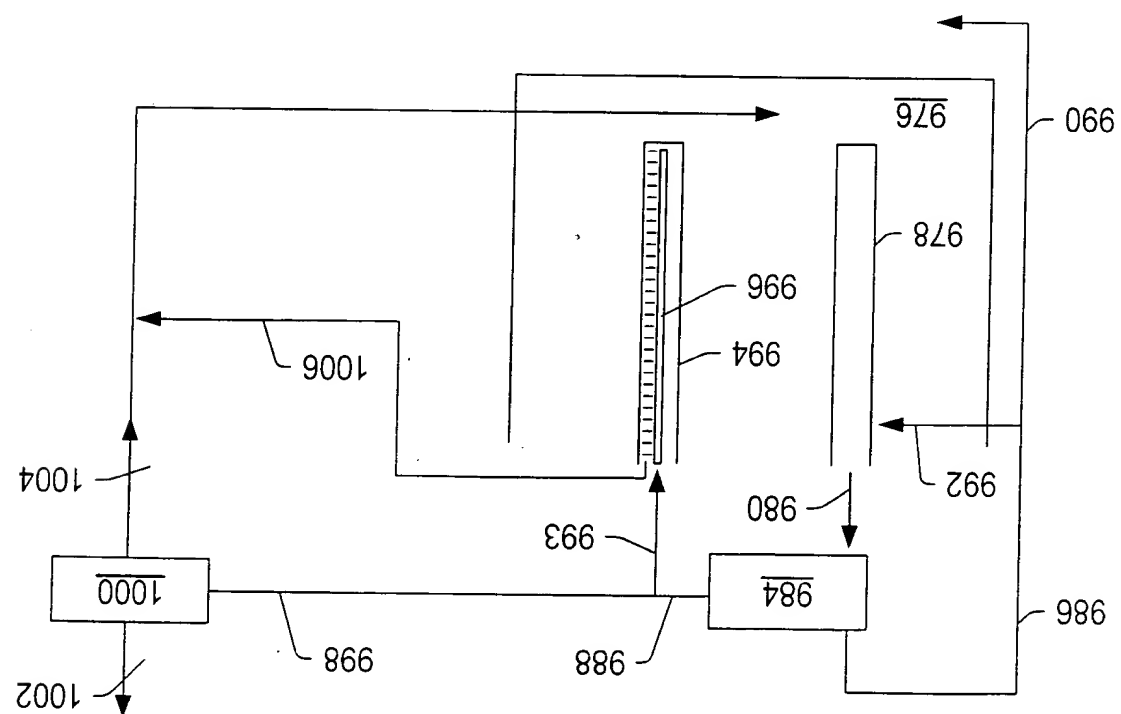


FIG. 37

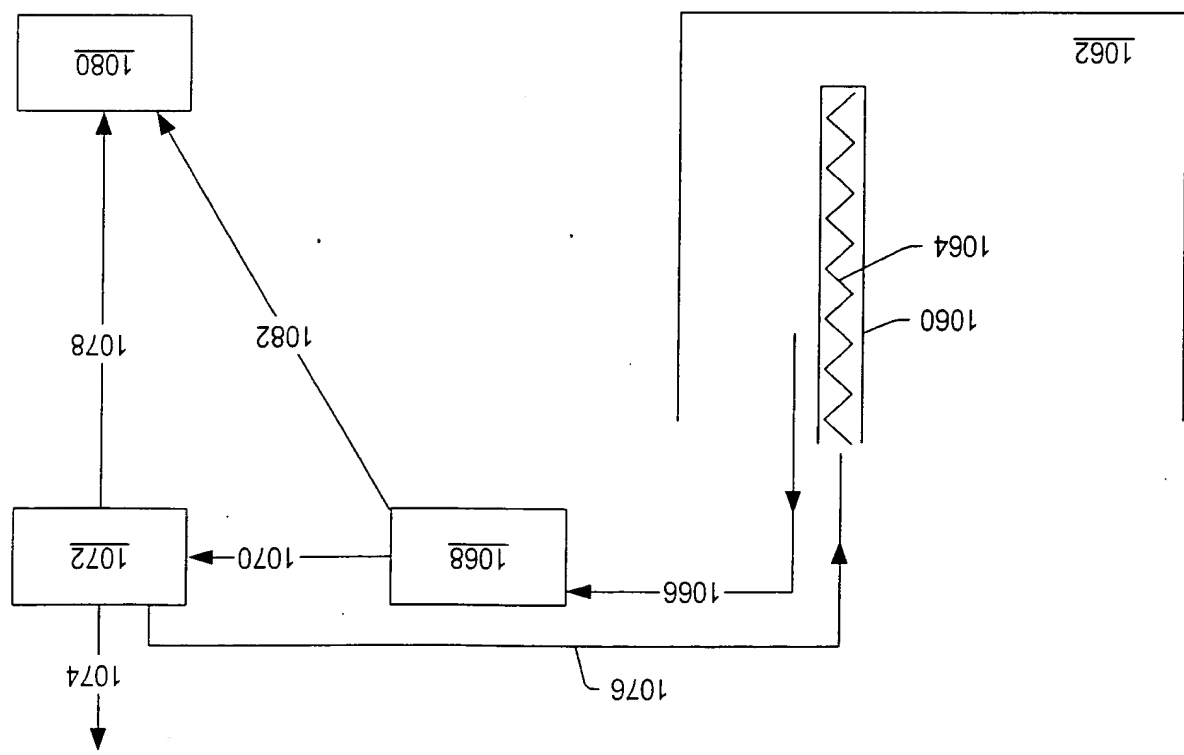
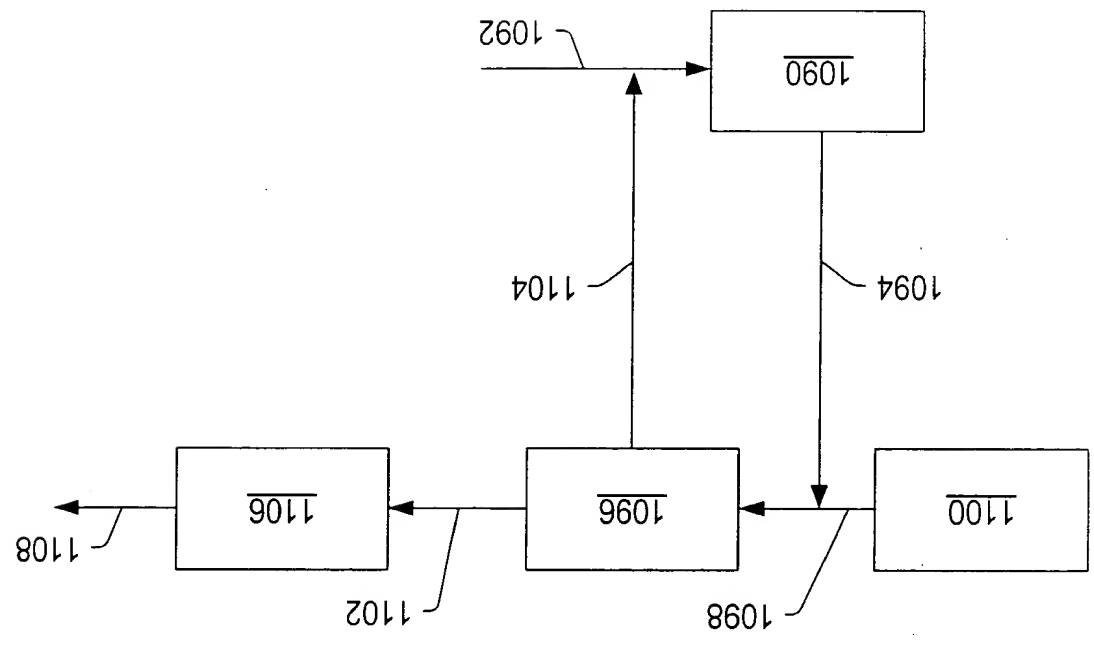


FIG. 38



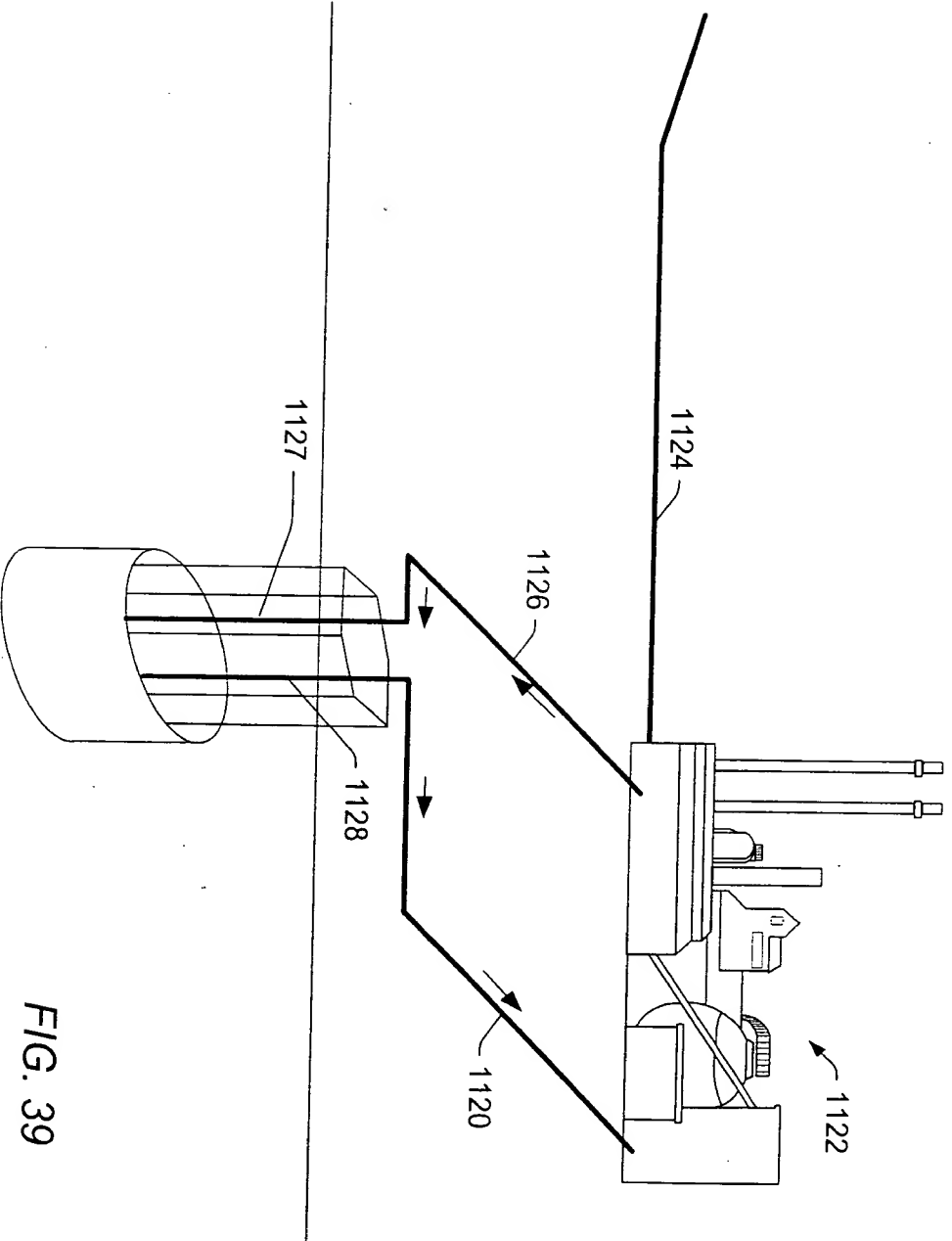


FIG. 39

FIG. 40 is a cross-sectional view of the device 100 in a second state, where the device 100 is in a retracted position. The device 100 is shown in a cross-sectional view, with the housing 110 and the internal components 120. The device 100 is shown in a retracted position, where the internal components 120 are retracted into the housing 110. The device 100 is shown in a cross-sectional view, with the housing 110 and the internal components 120. The device 100 is shown in a retracted position, where the internal components 120 are retracted into the housing 110.

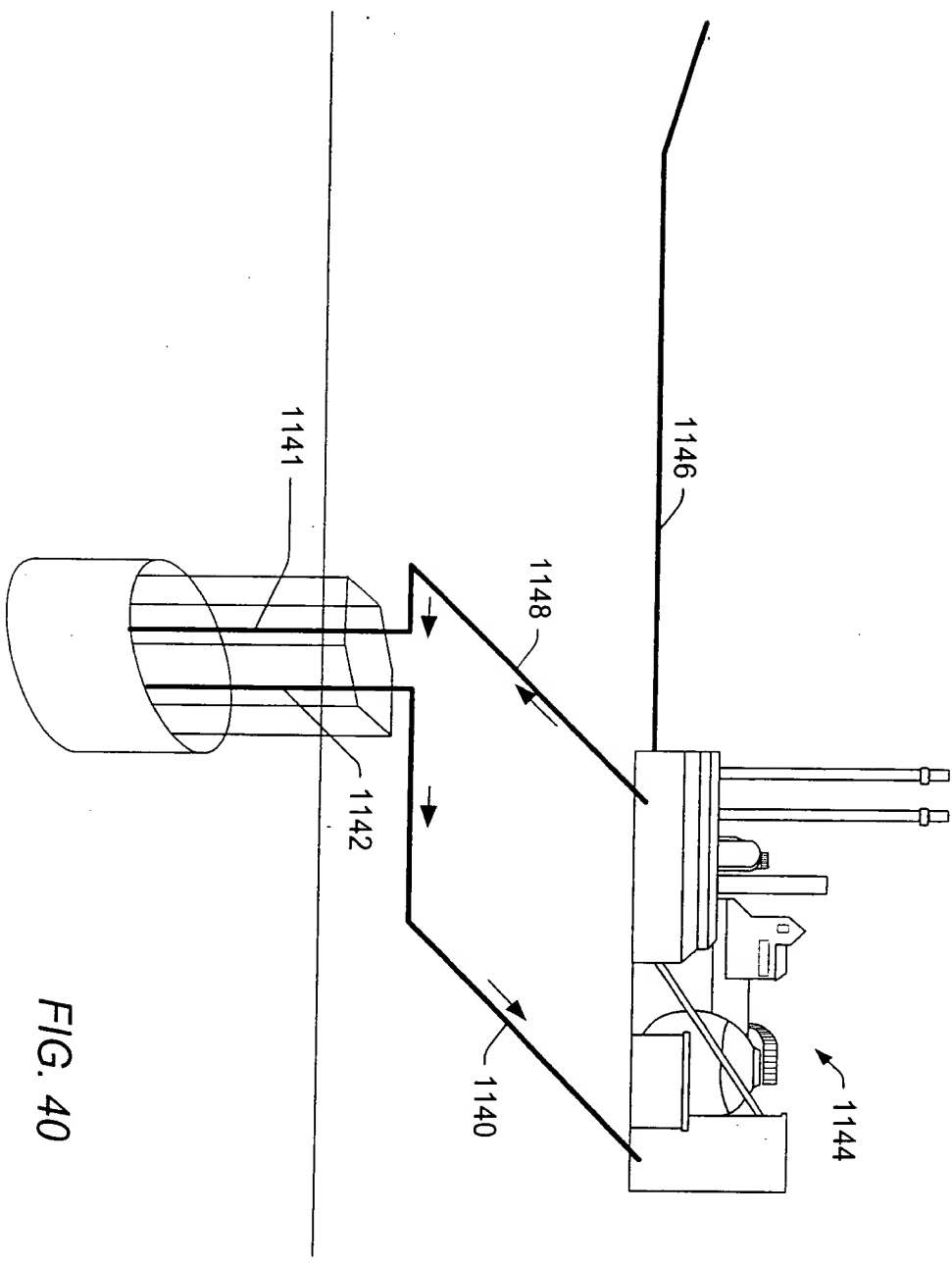


FIG. 40

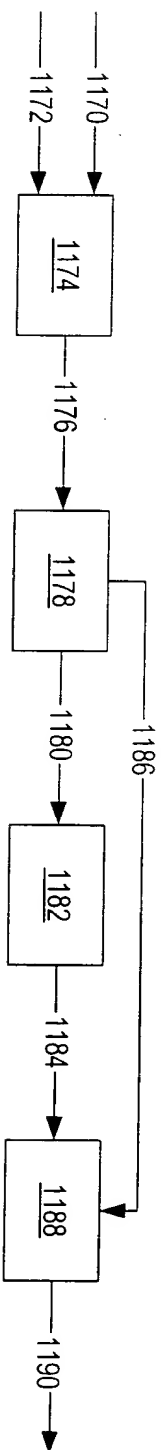


FIG. 41

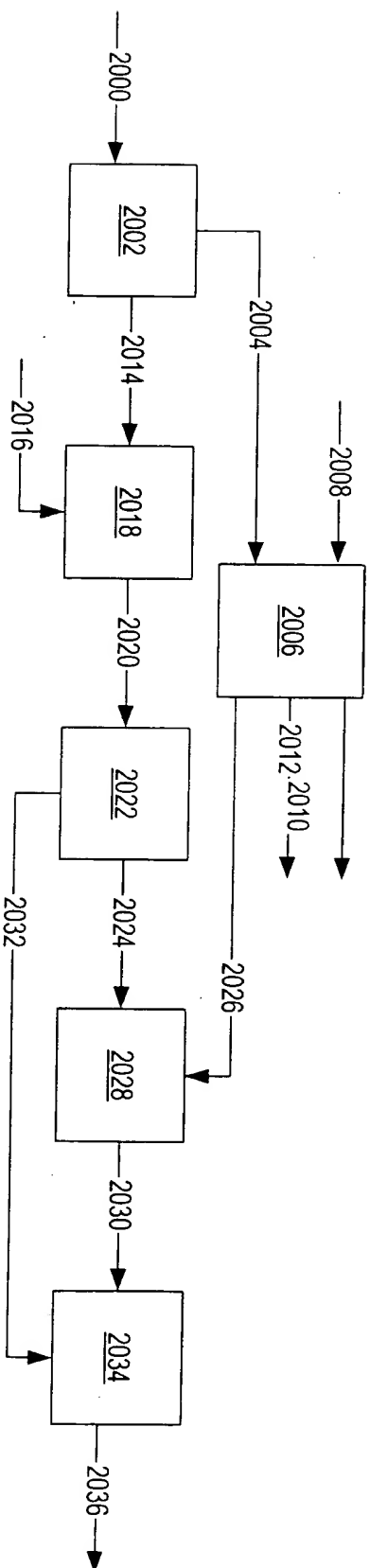


FIG. 42

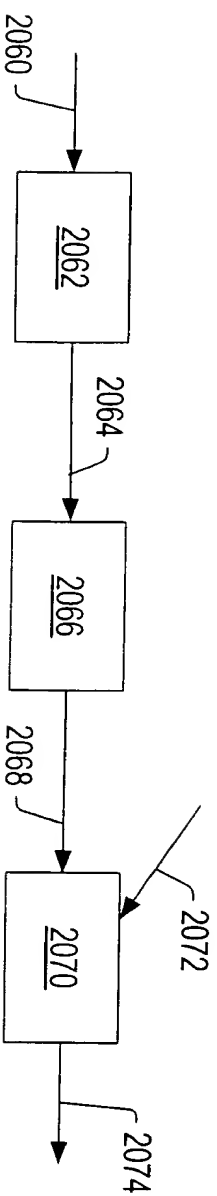


FIG. 43



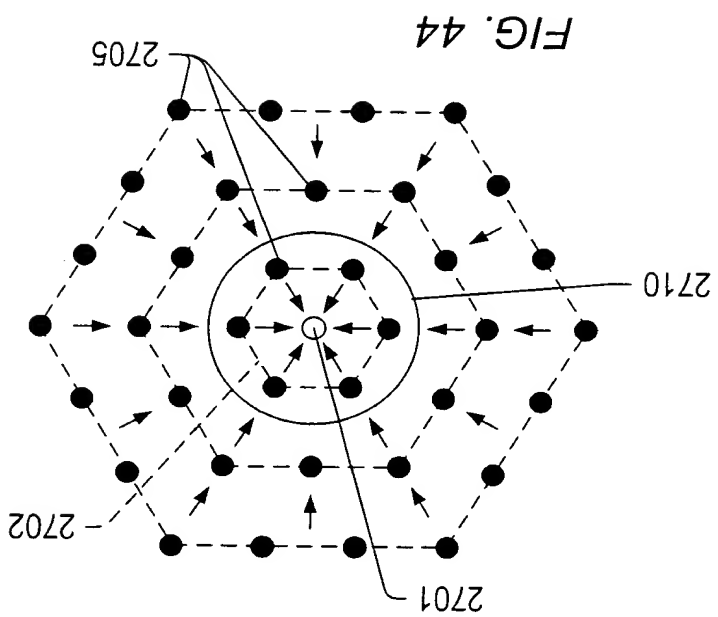


FIG. 46

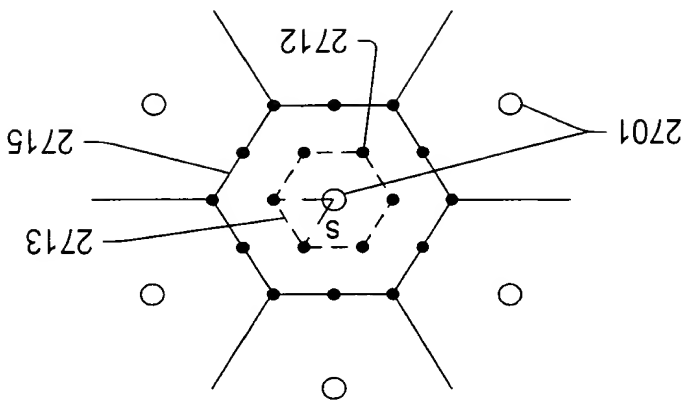


FIG. 45

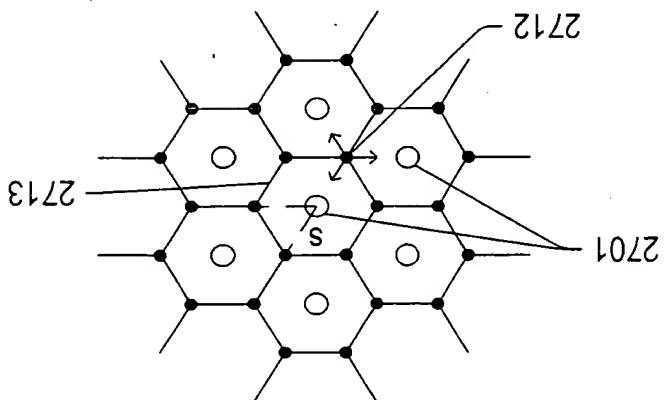


FIG. 47

FIG. 48

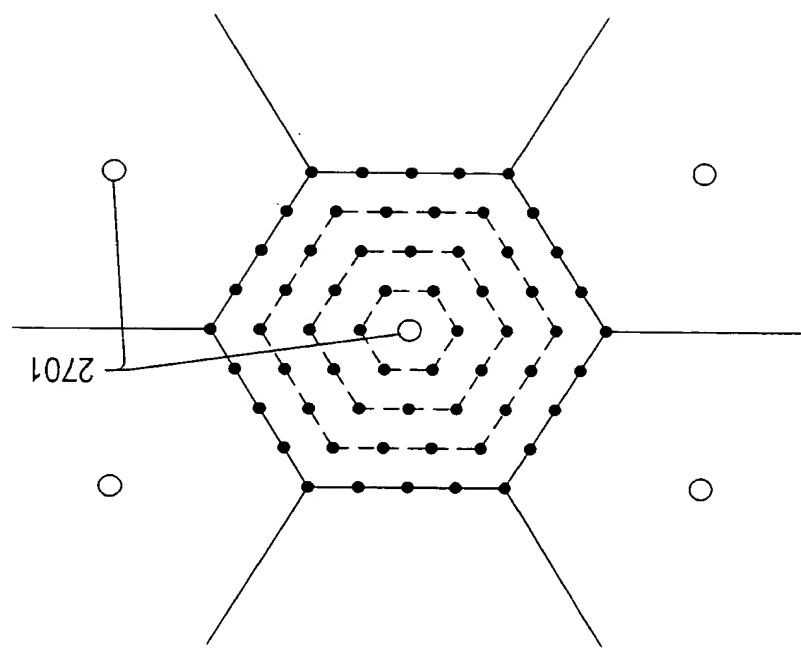


FIG. 47

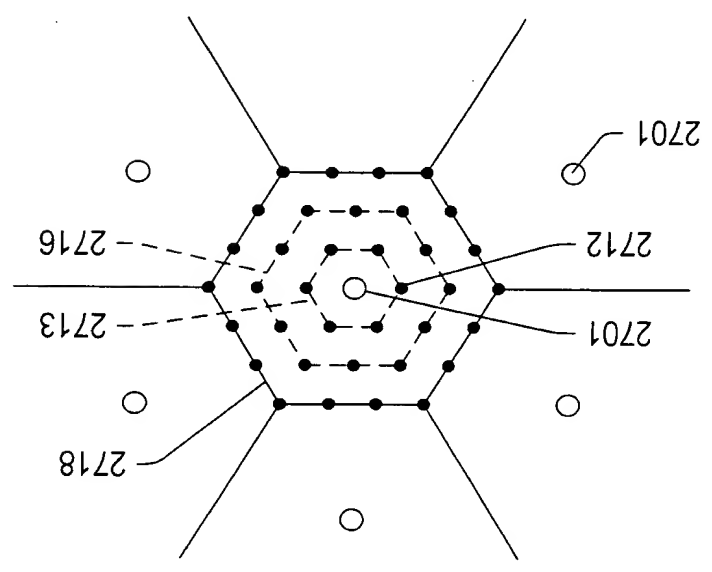


FIG. 49

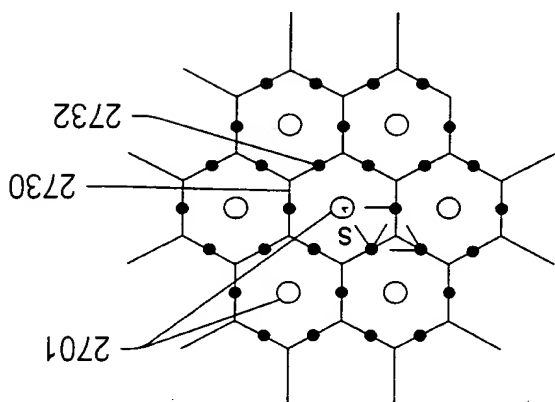


FIG. 50

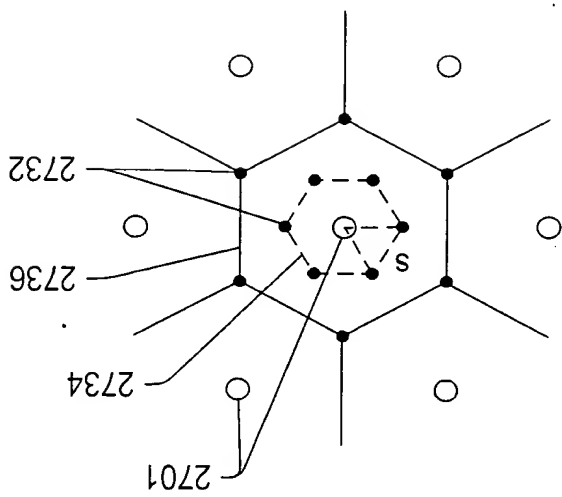


FIG. 51

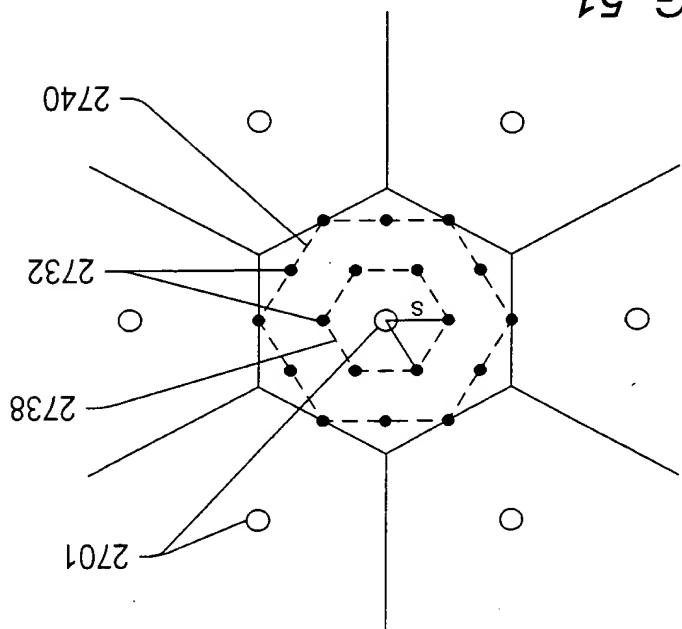


FIG. 52

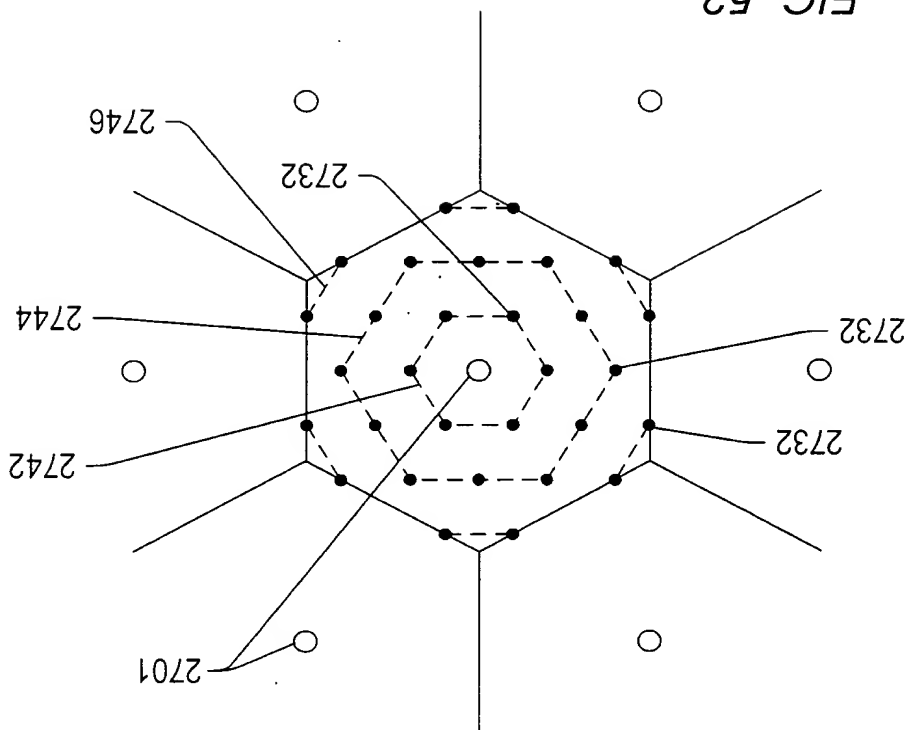


FIG. 53

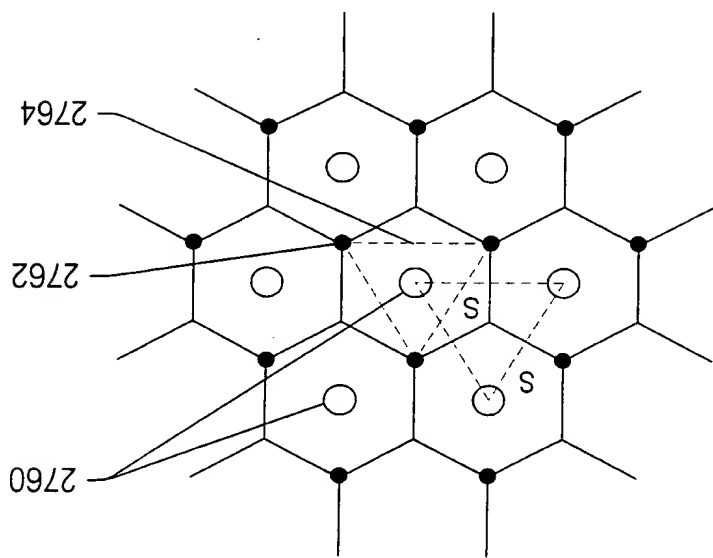


FIG. 54

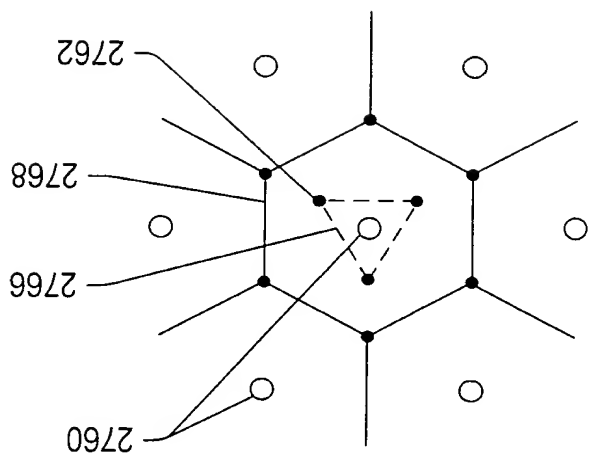


FIG. 56

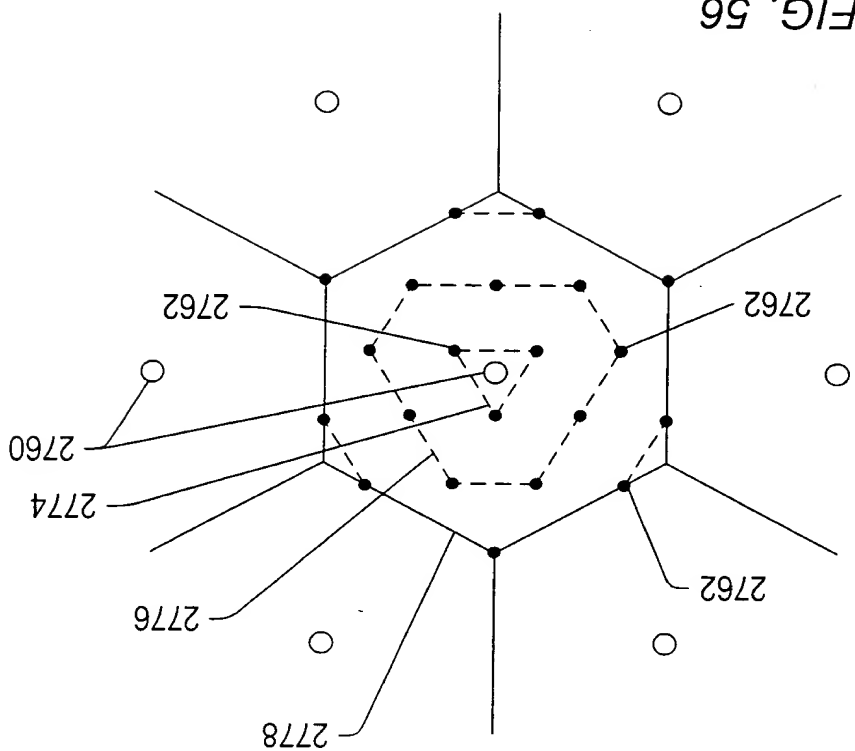
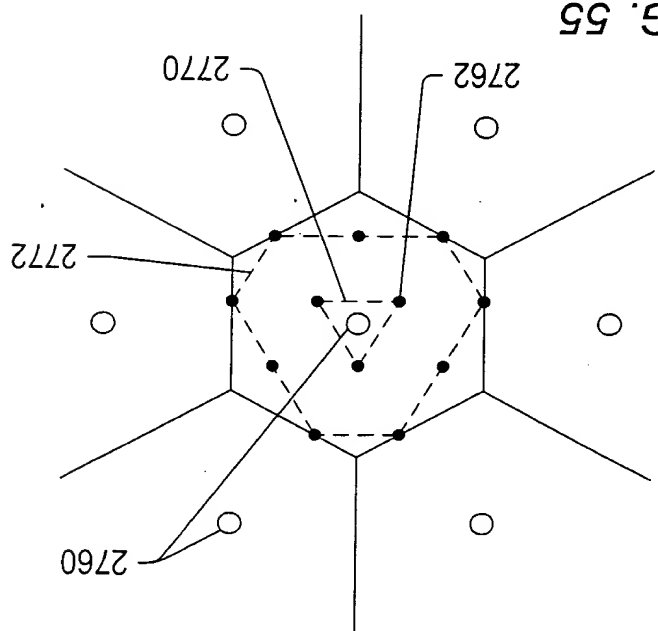
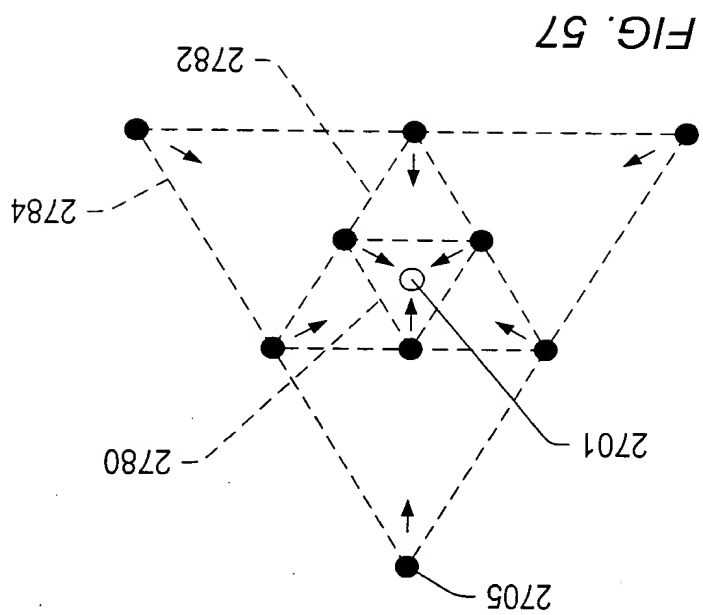


FIG. 55







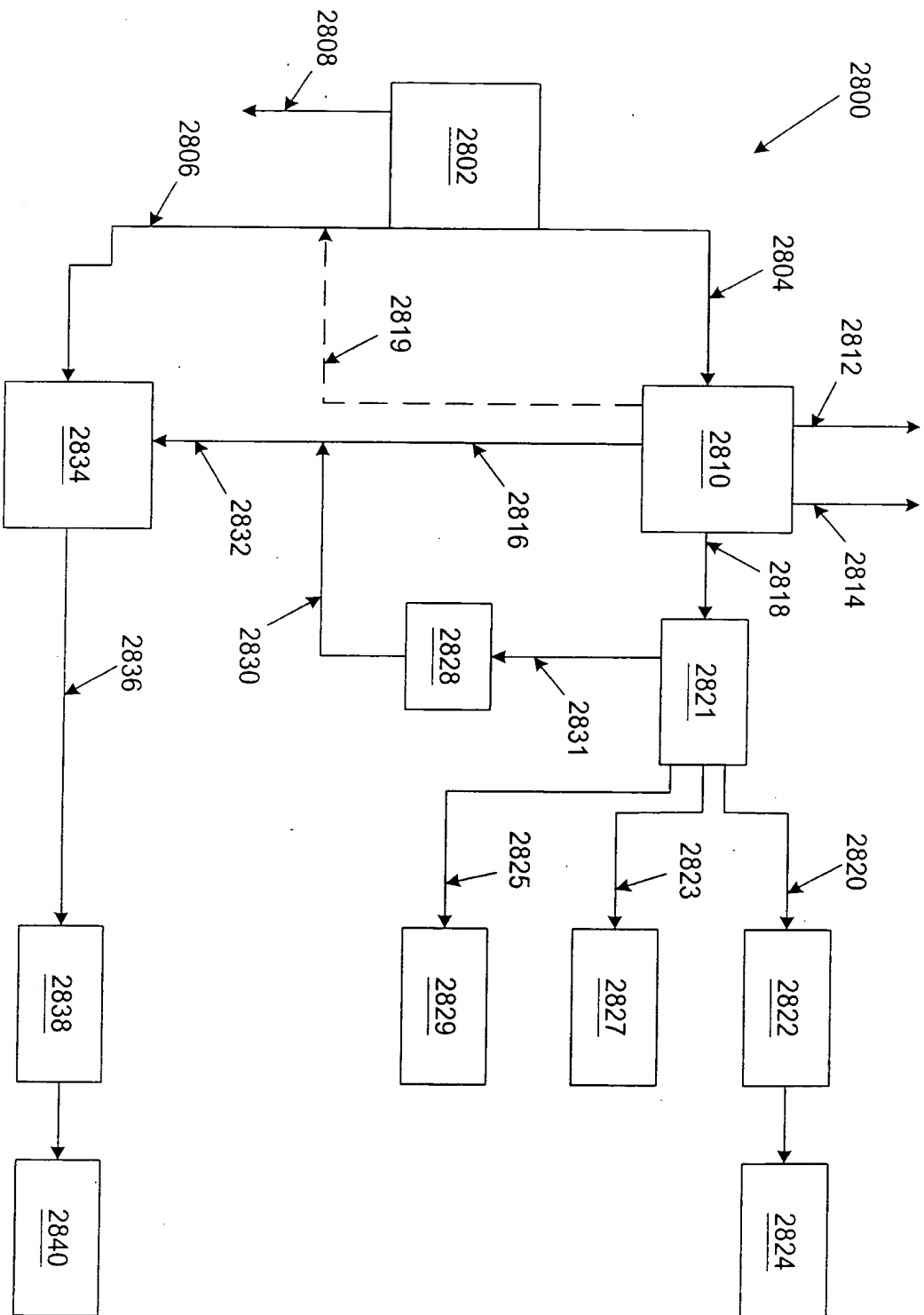


Fig. 58

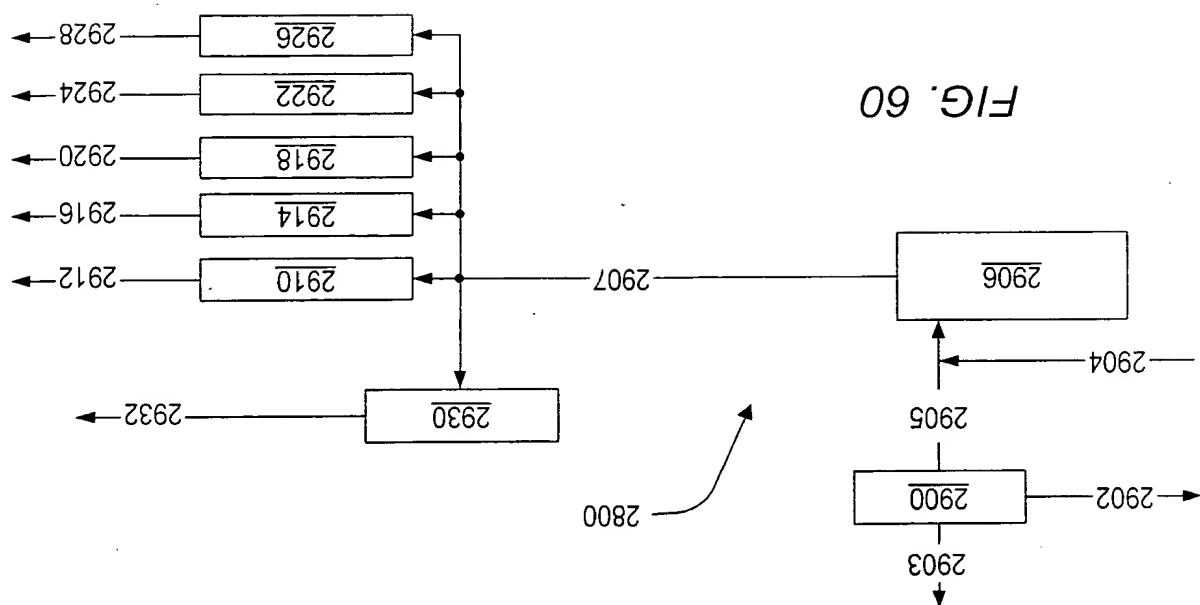


FIG. 60

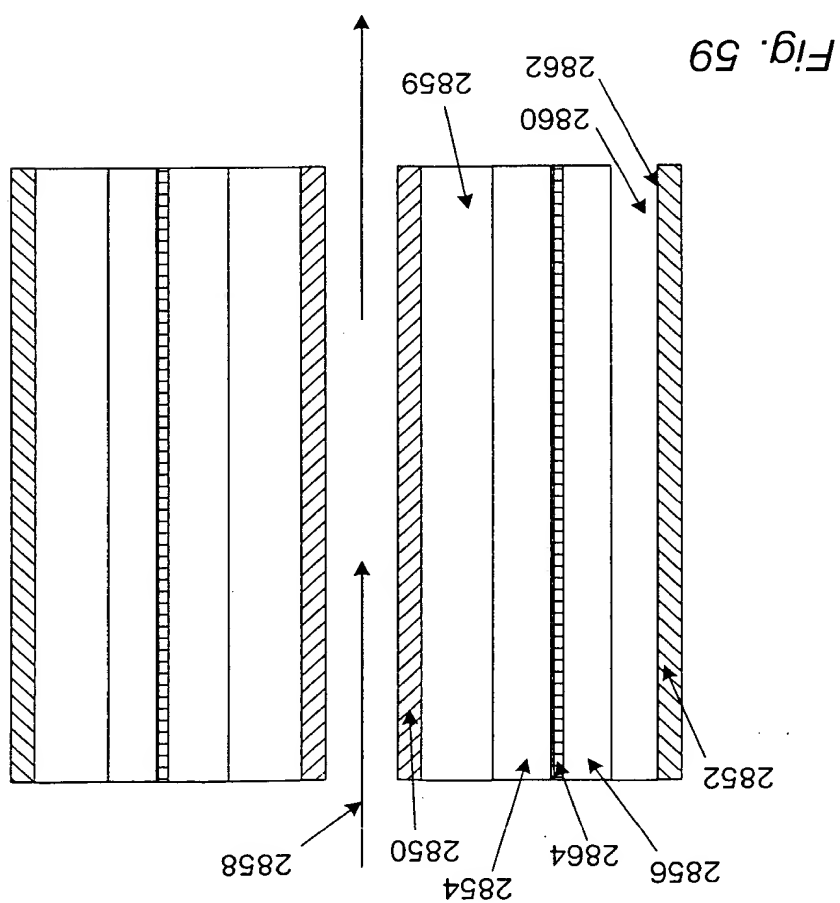


Fig. 59

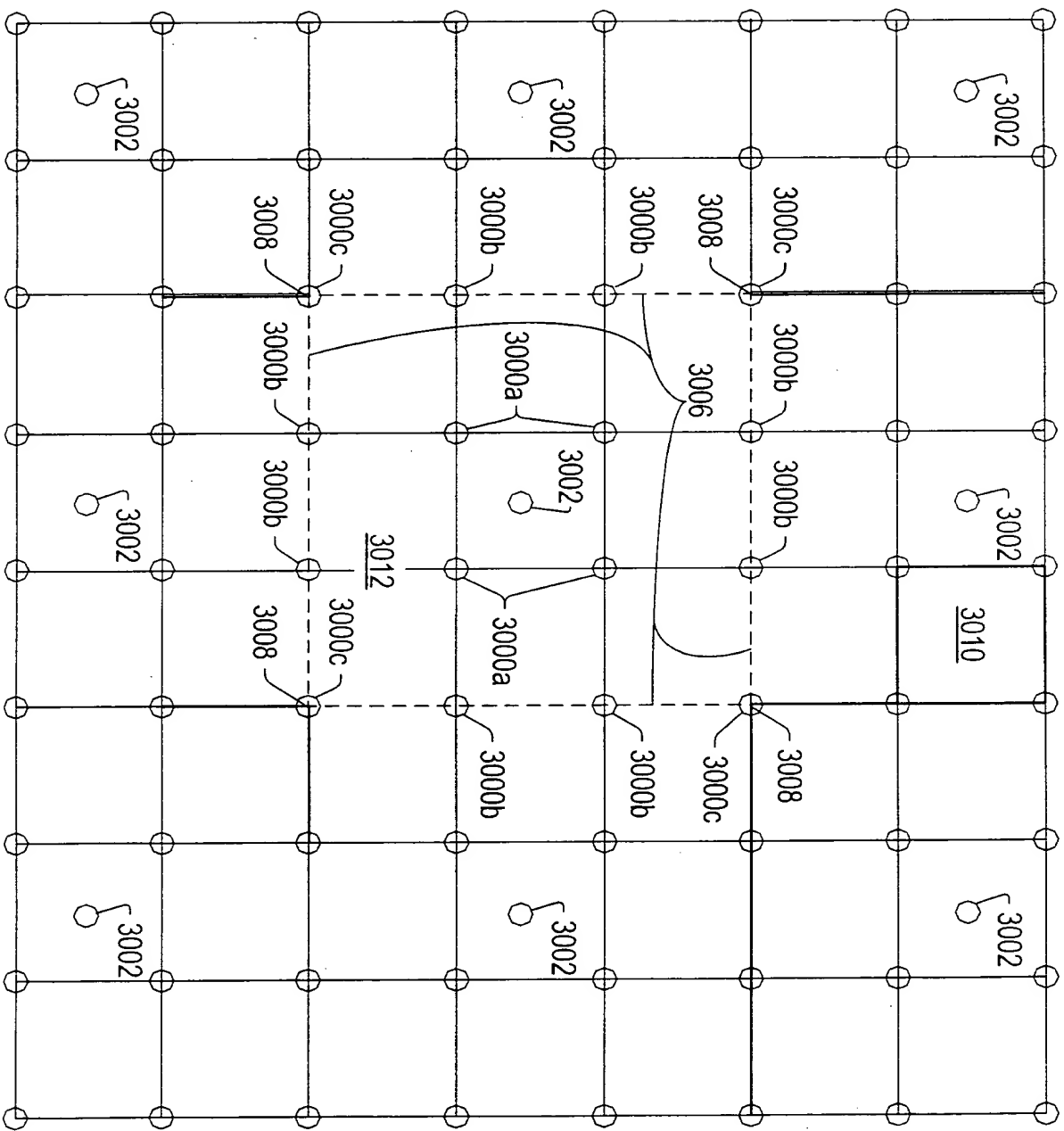


FIG. 61

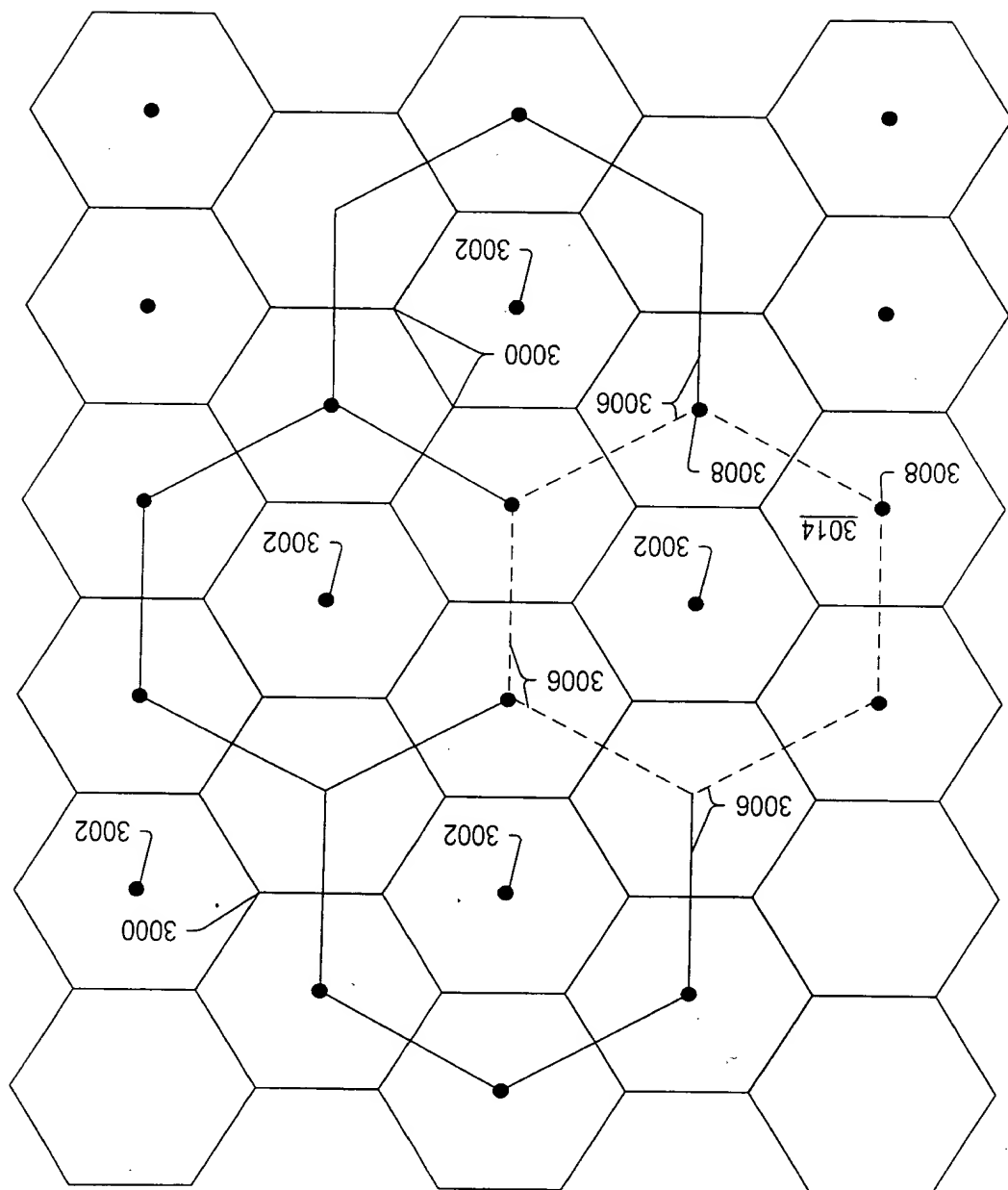


FIG. 62

FIG. 64

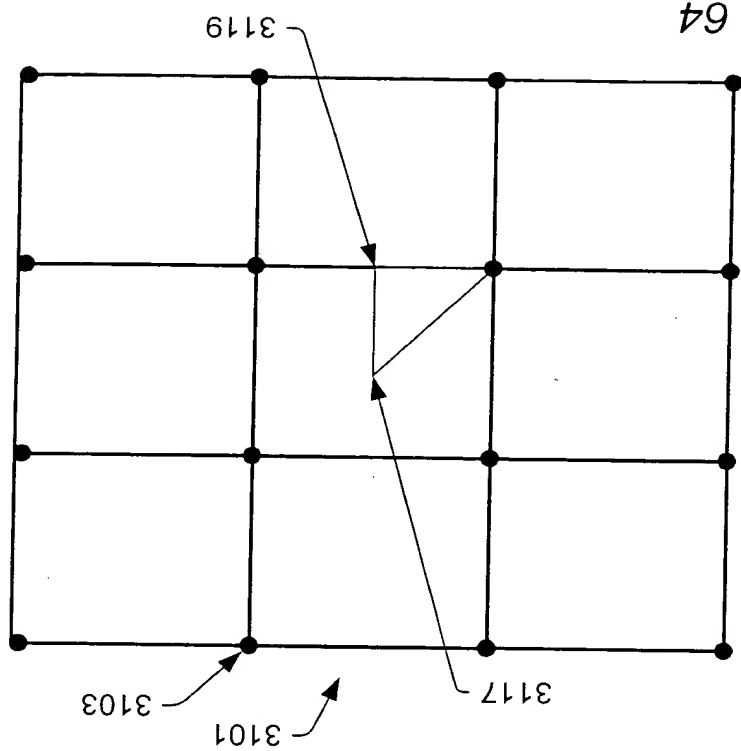


FIG. 63

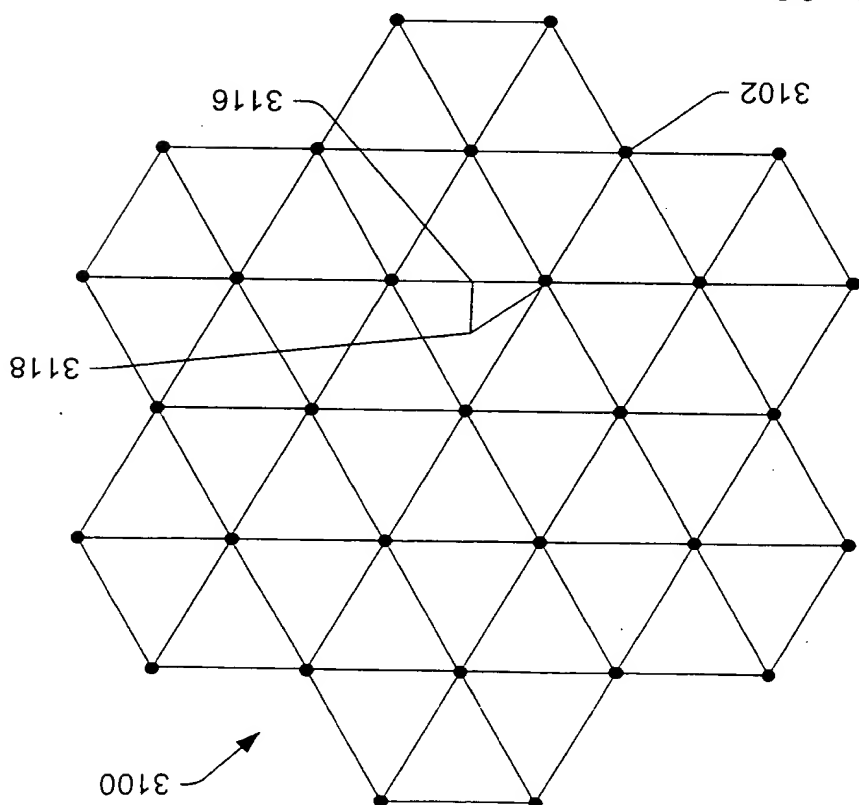


FIG. 66

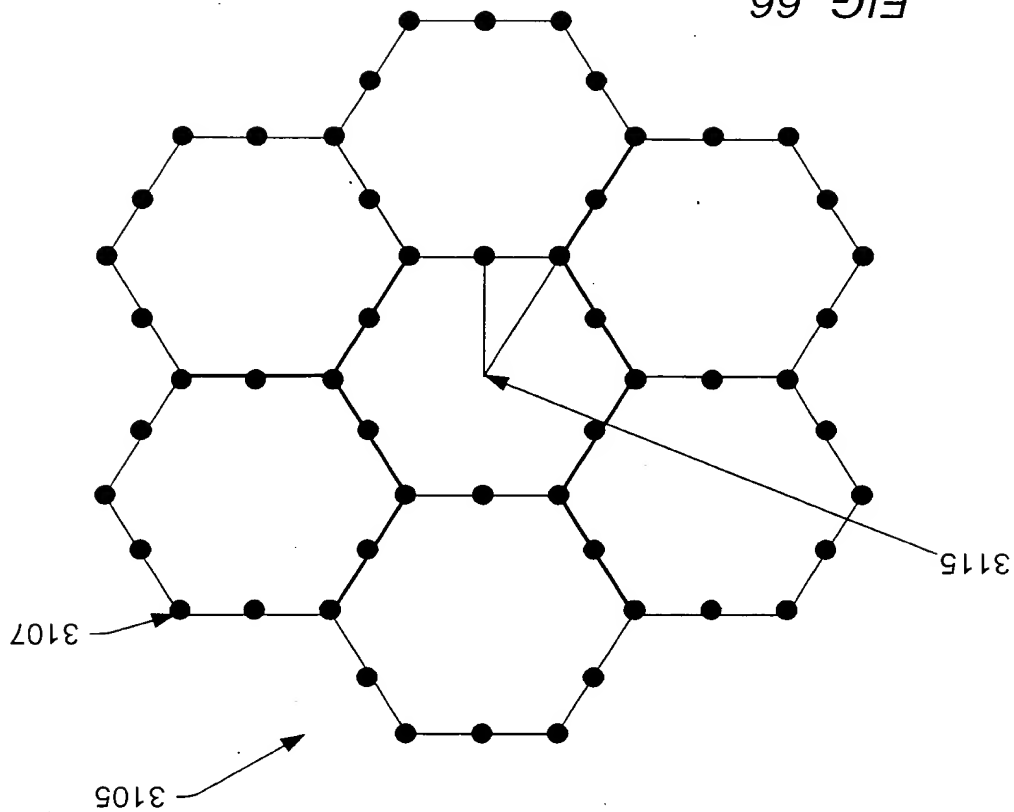
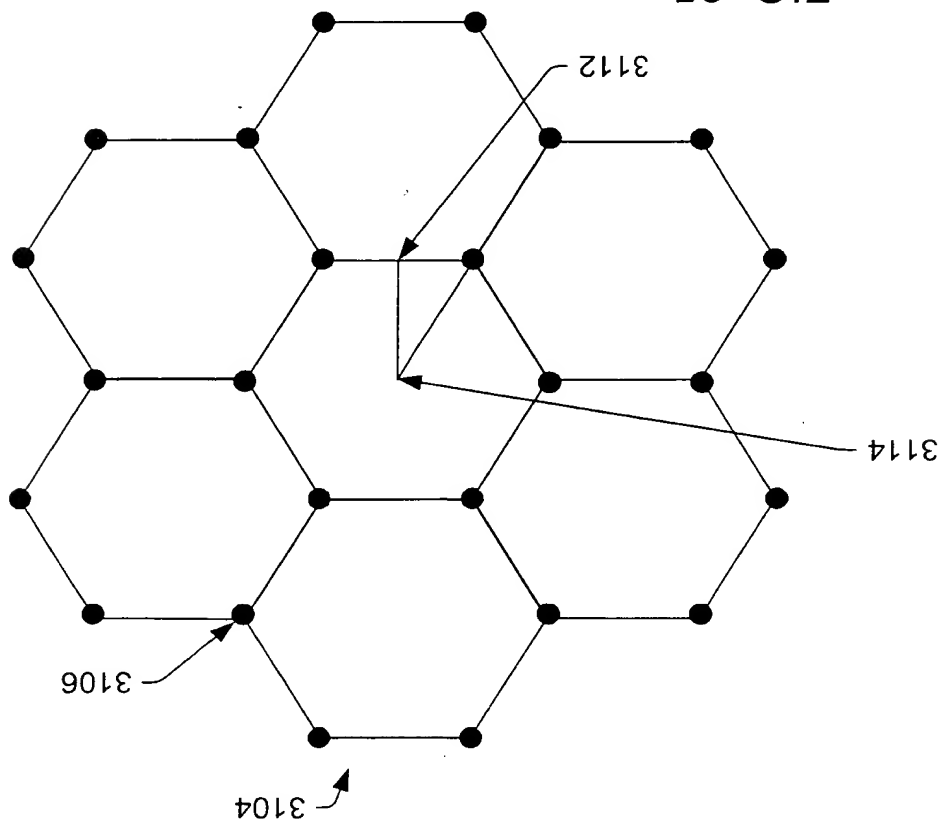


FIG. 65



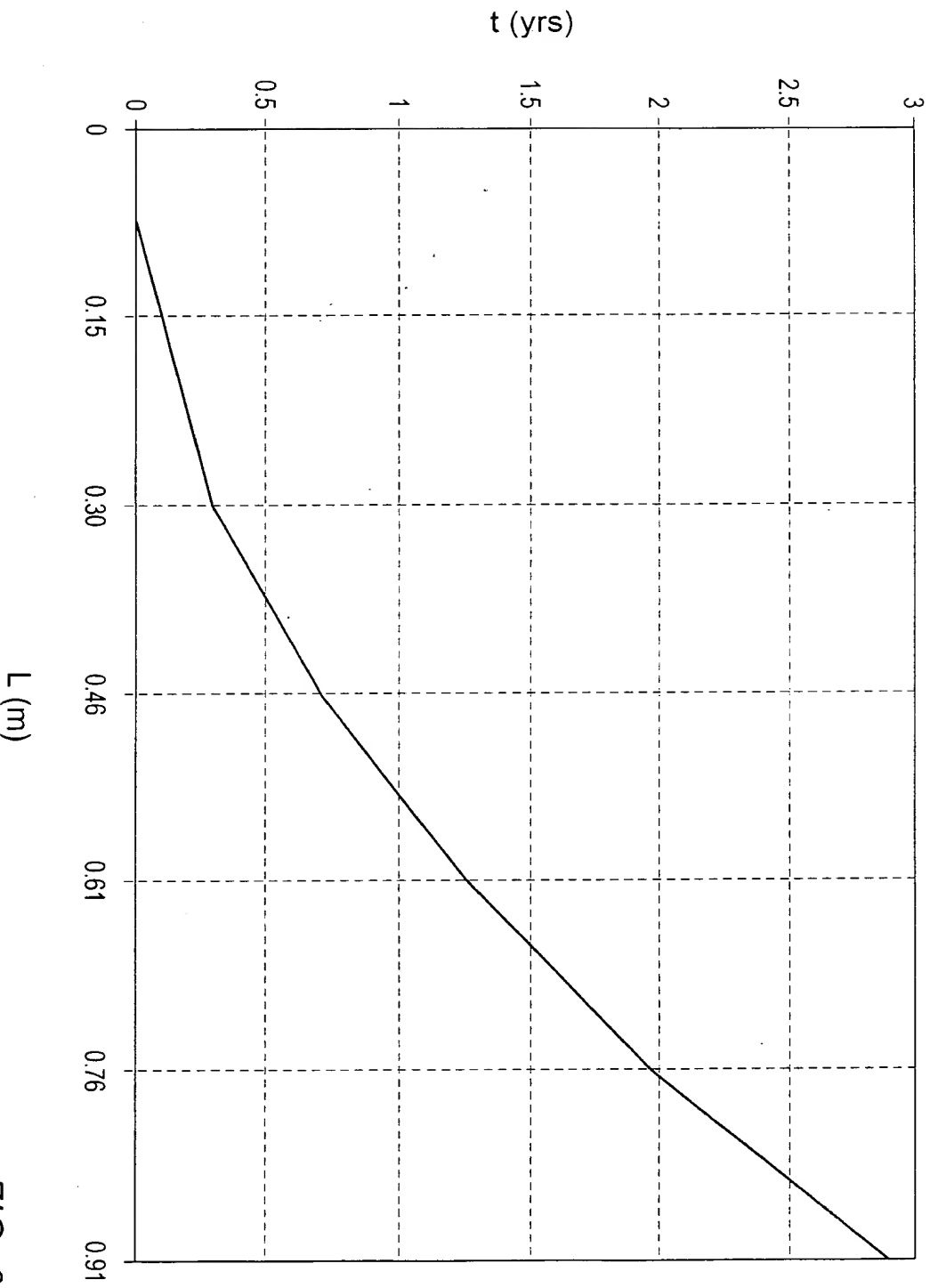


FIG. 67

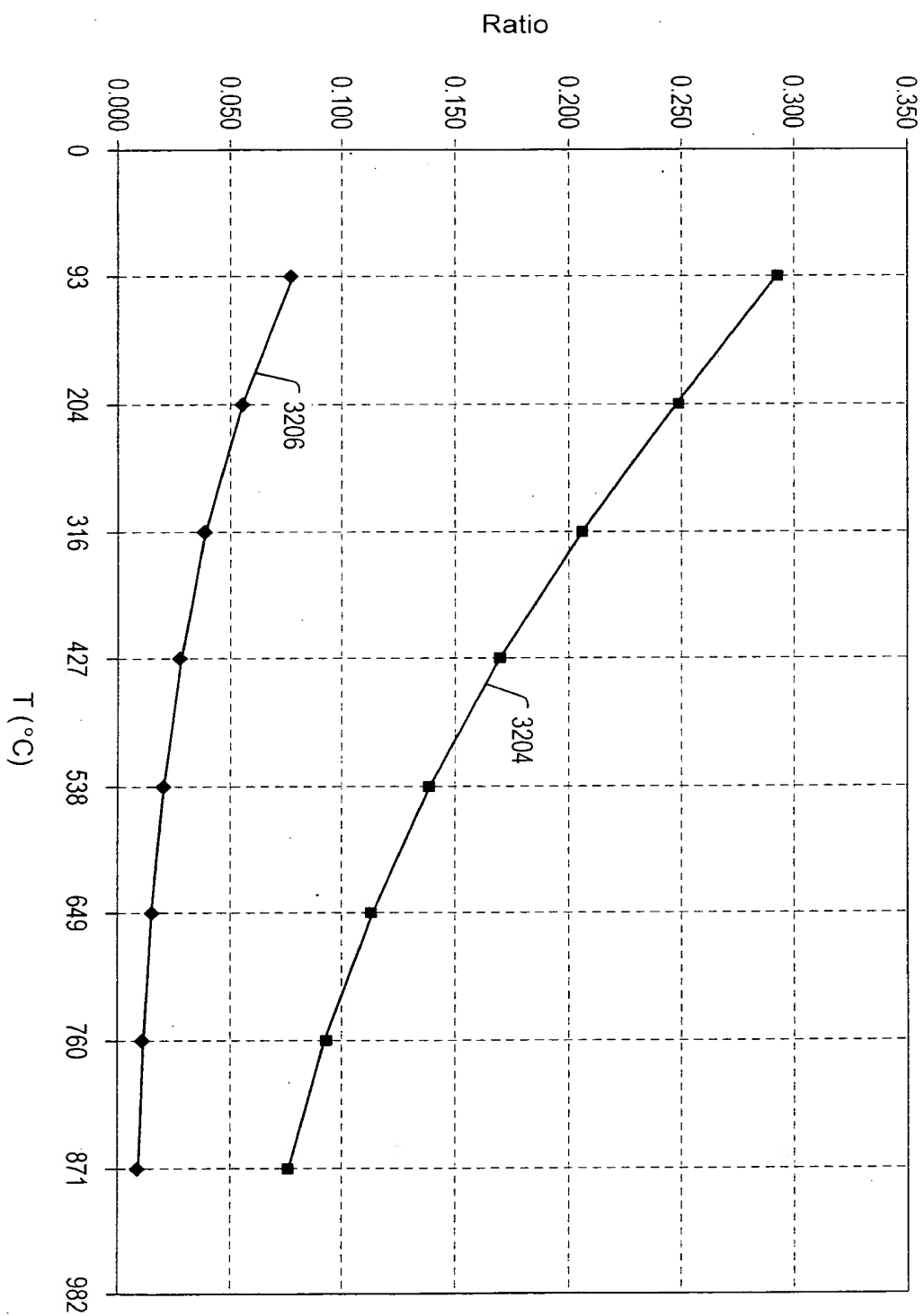


FIG. 68



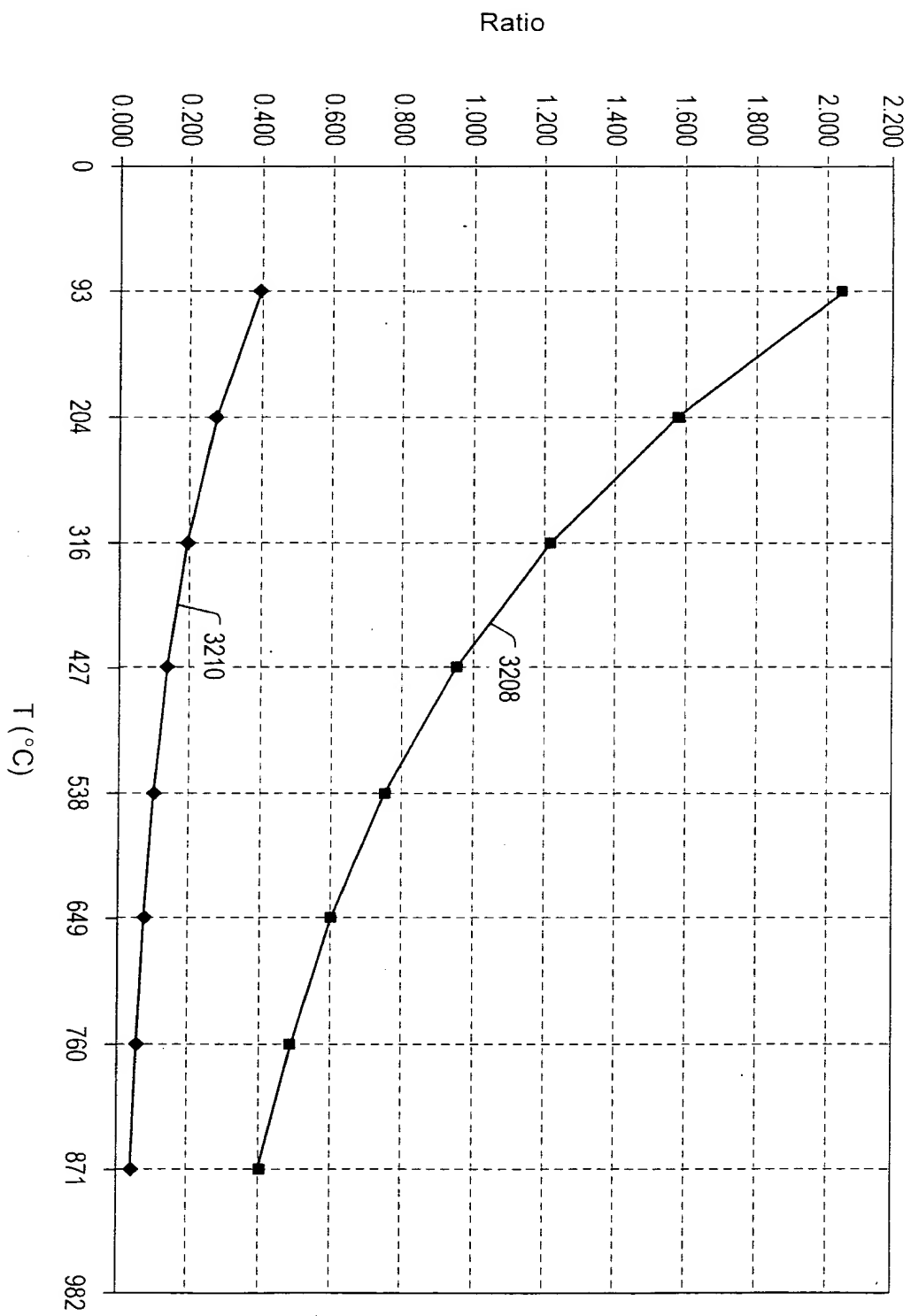


FIG. 69

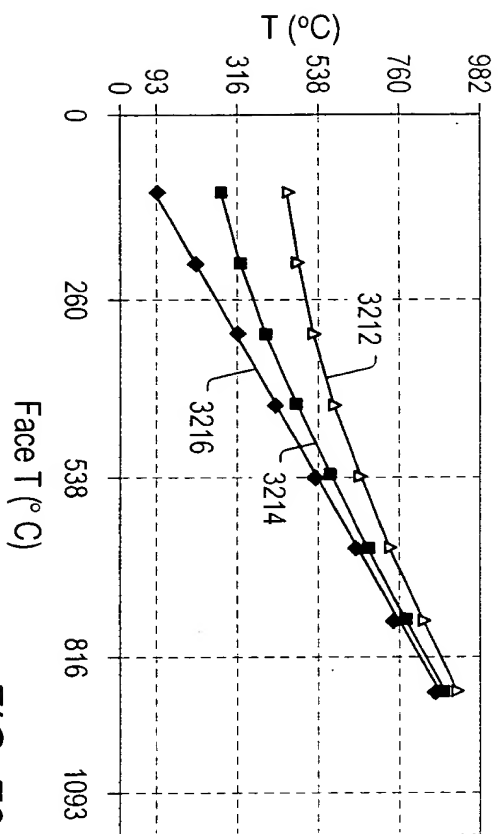


FIG. 70

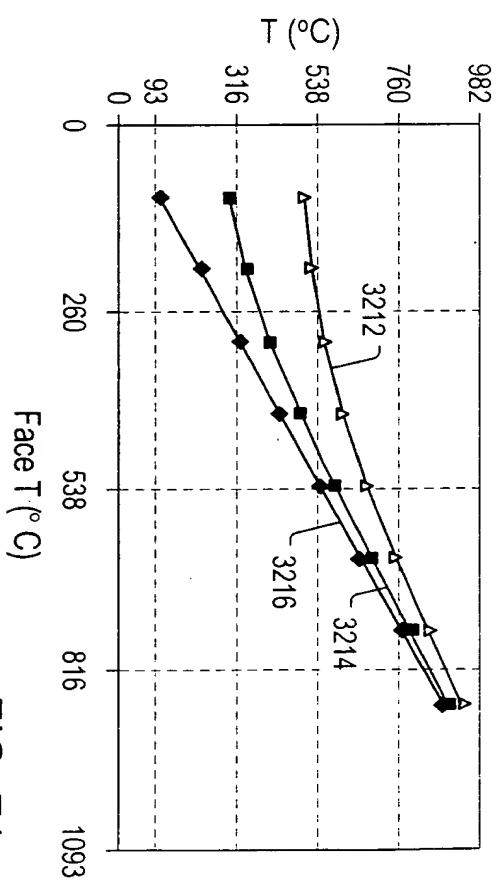


FIG. 71

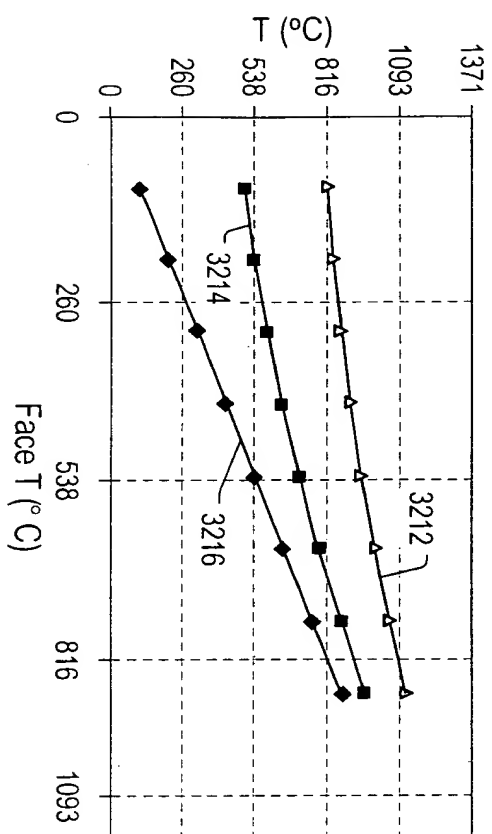


FIG. 72

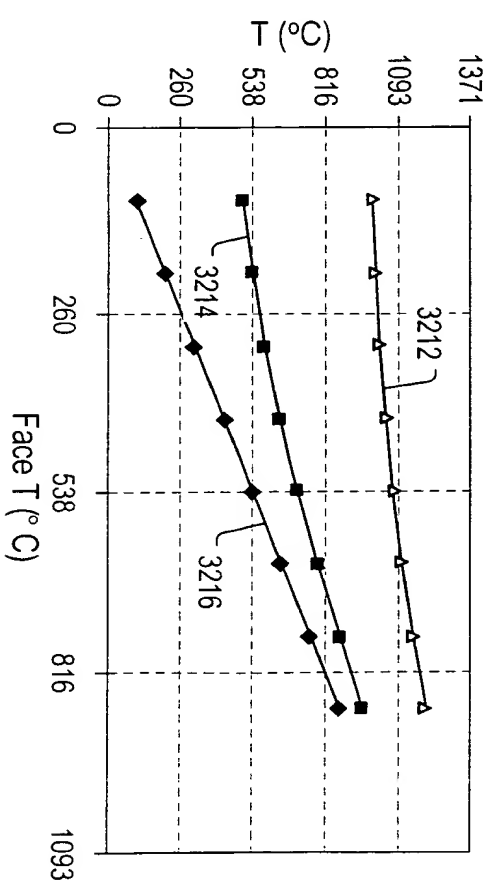


FIG. 73

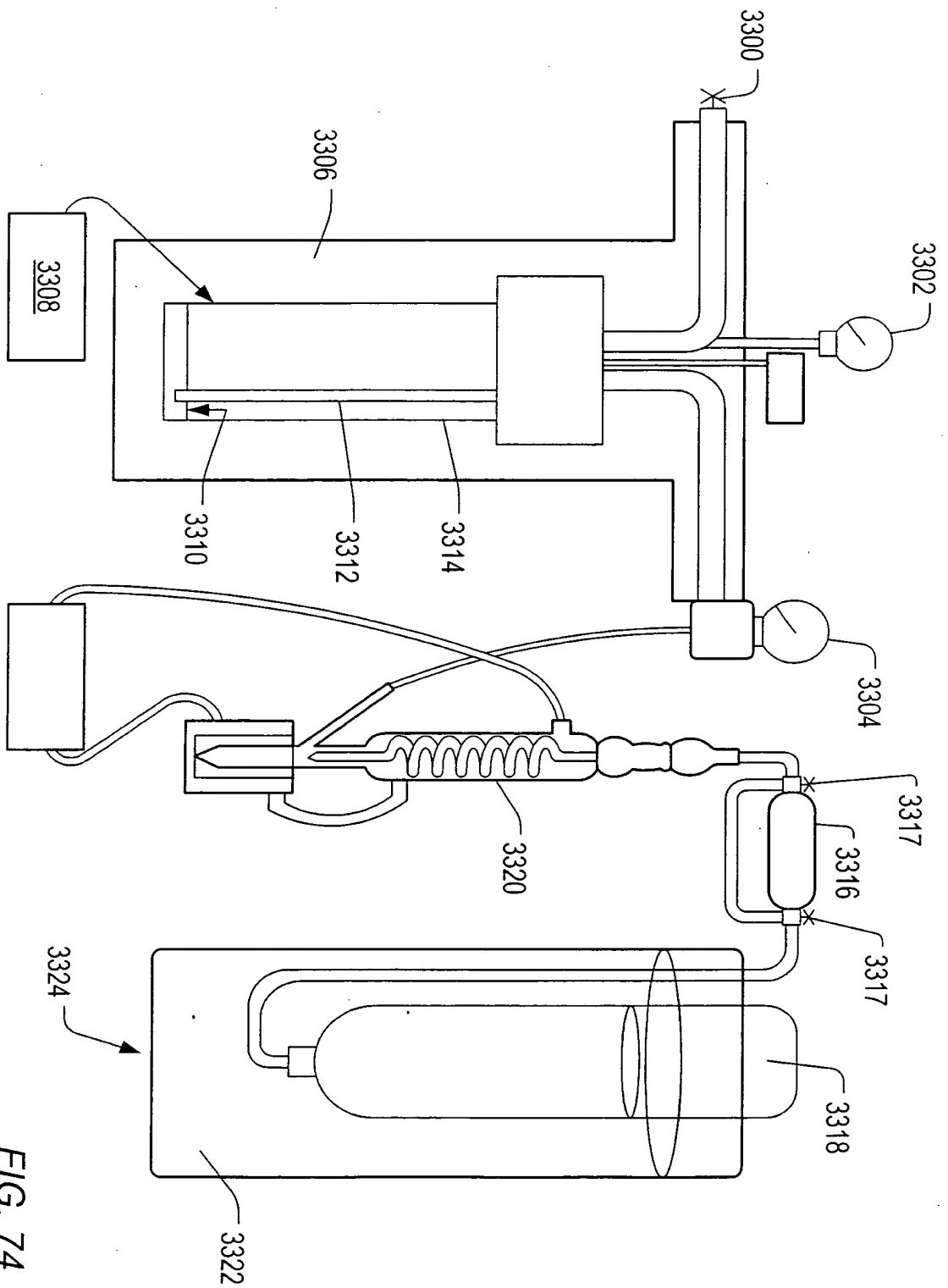


FIG. 74

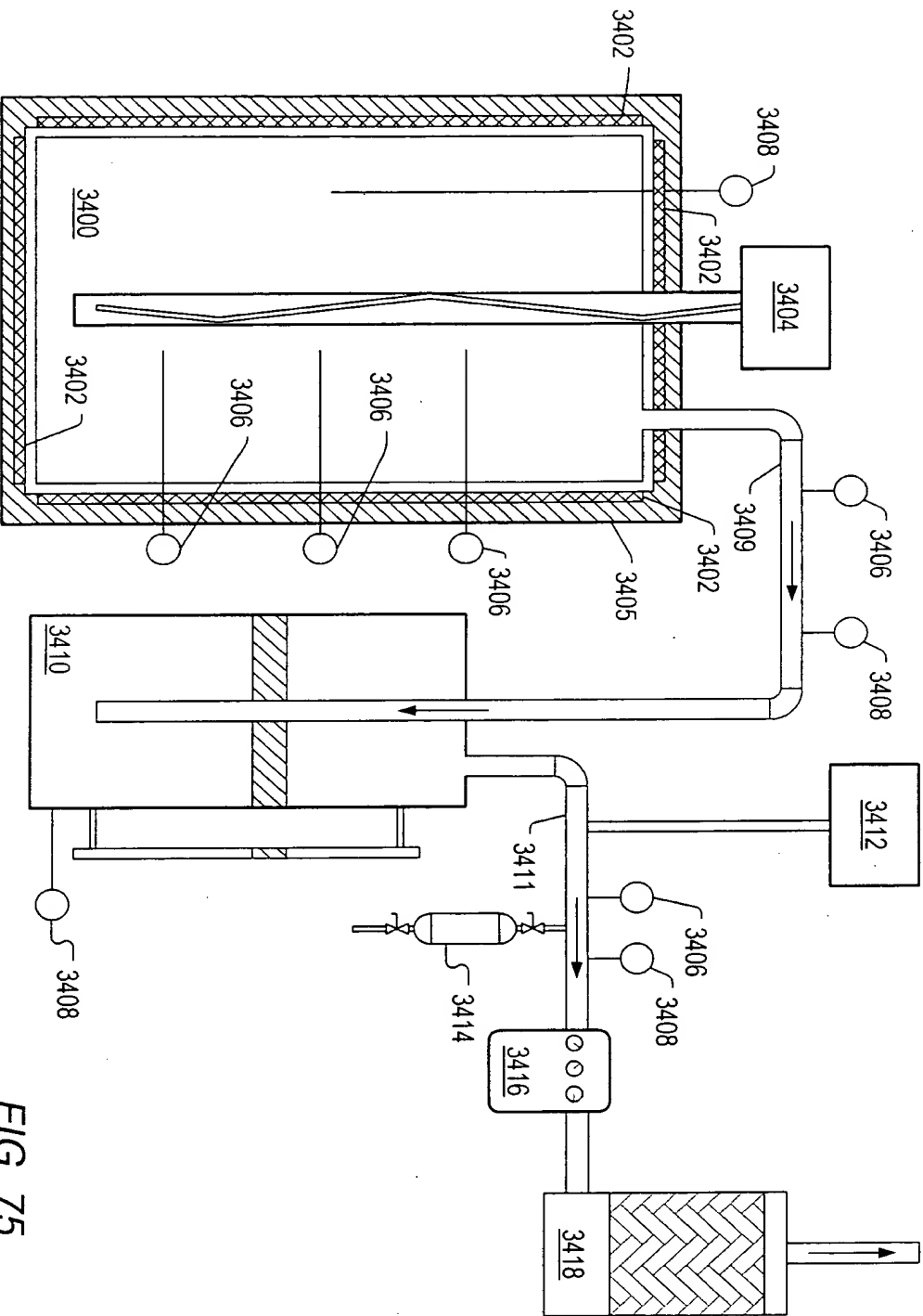


FIG. 75

FIG. 76

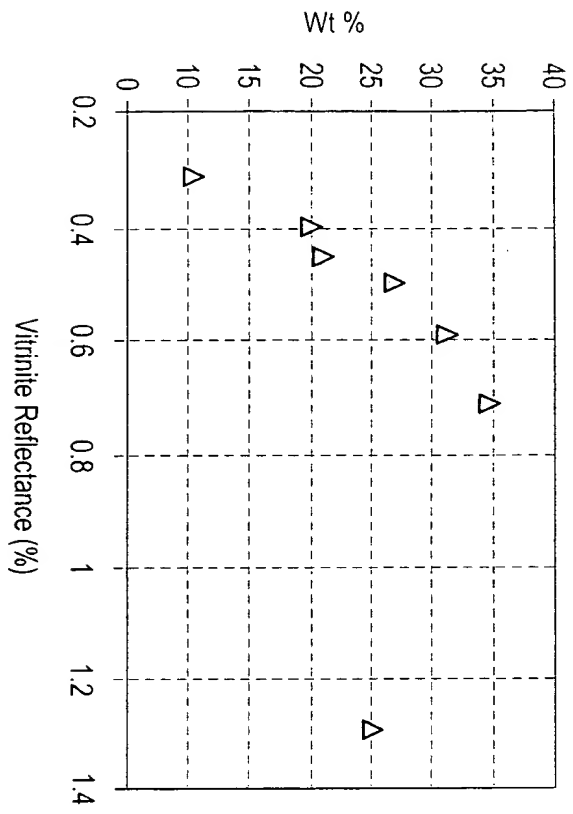


FIG. 77

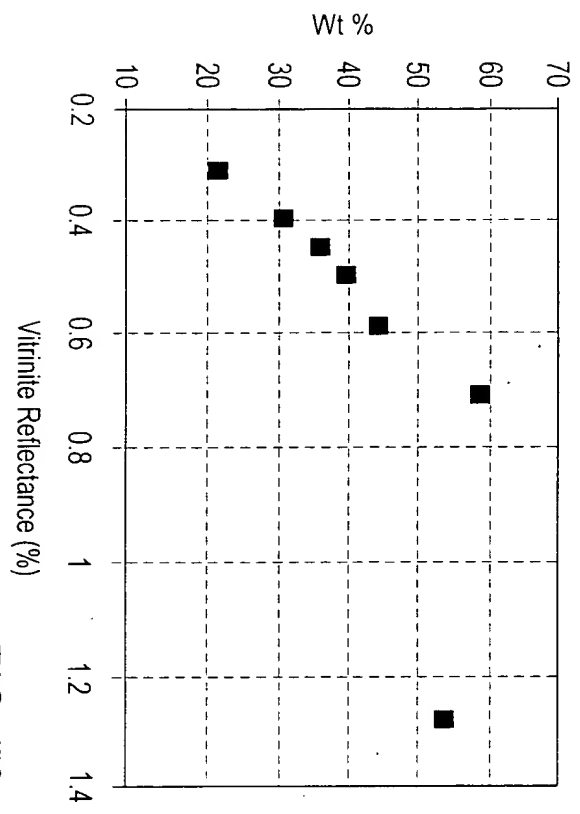


FIG. 79

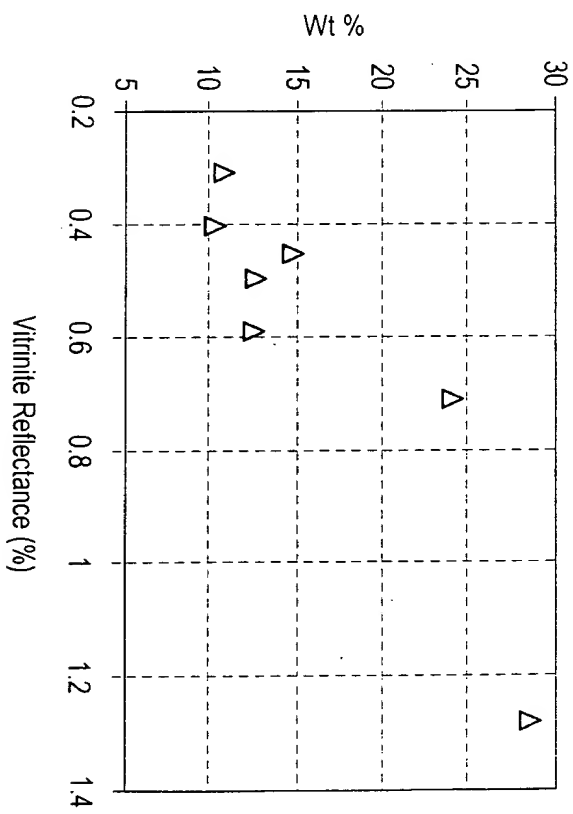


FIG. 78

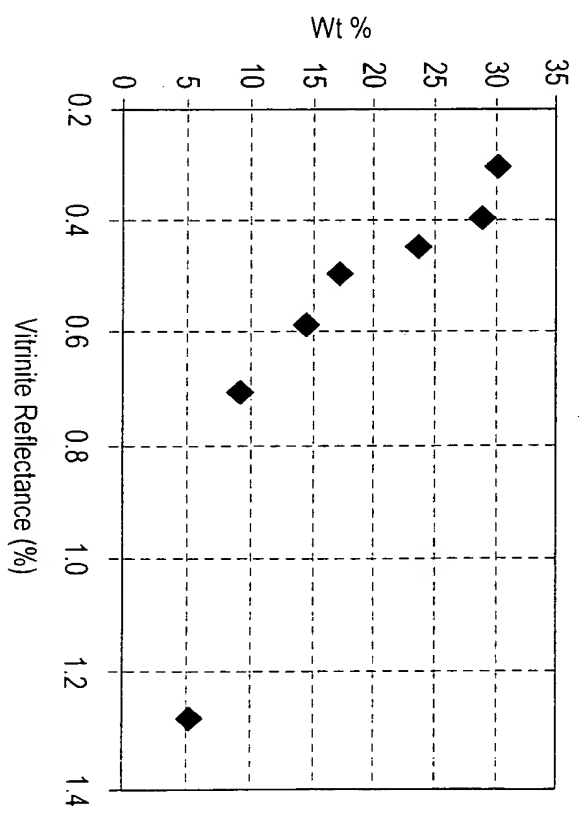


FIG. 80

FIG. 82

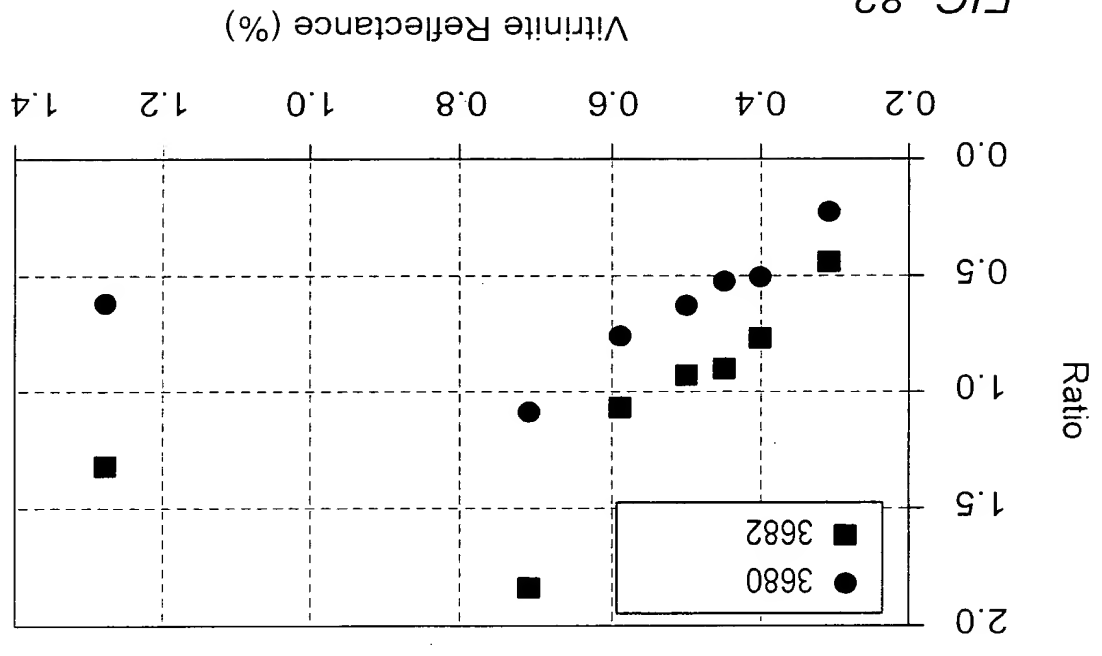
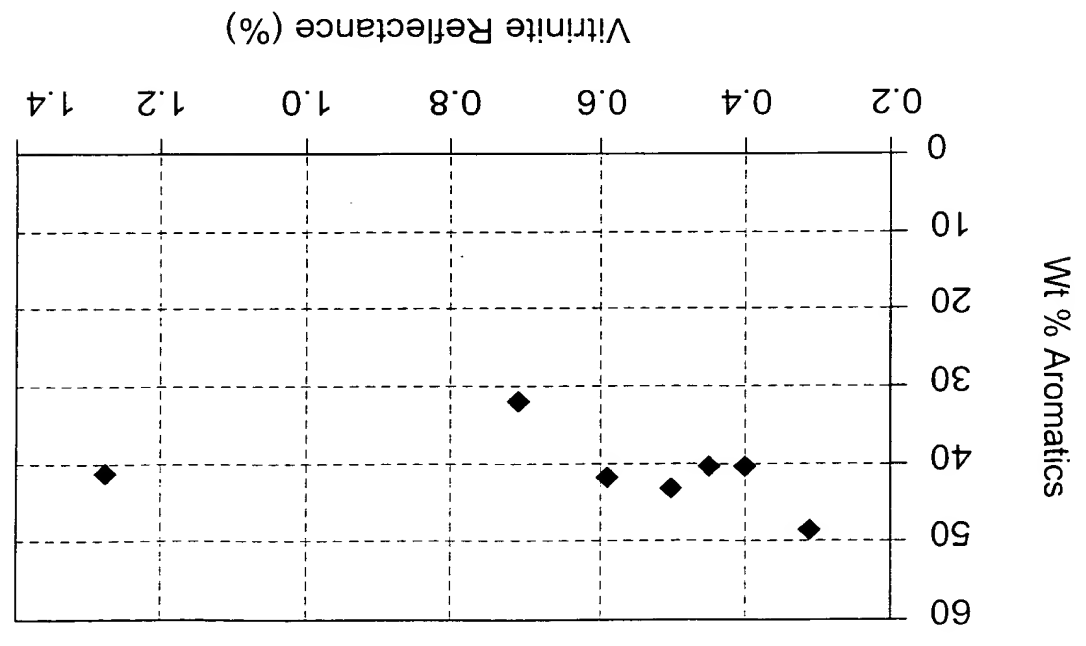


FIG. 81



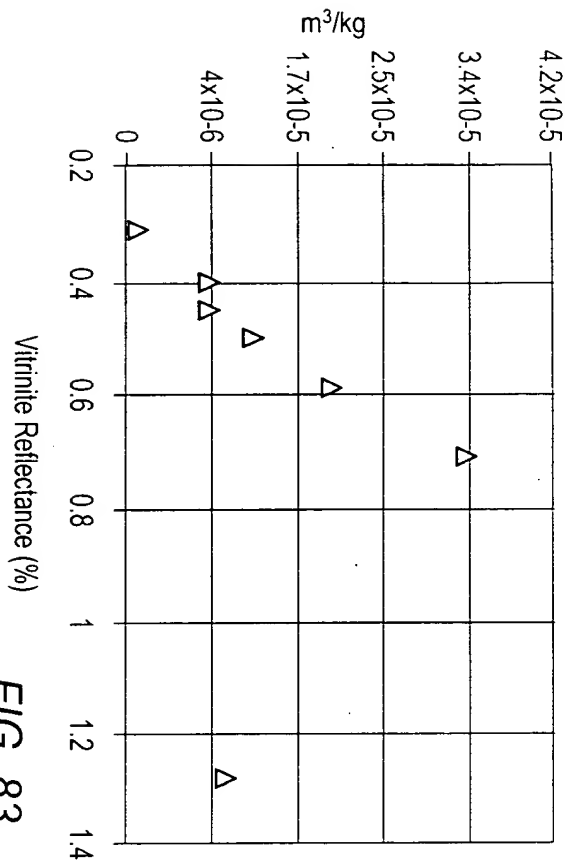


FIG. 83

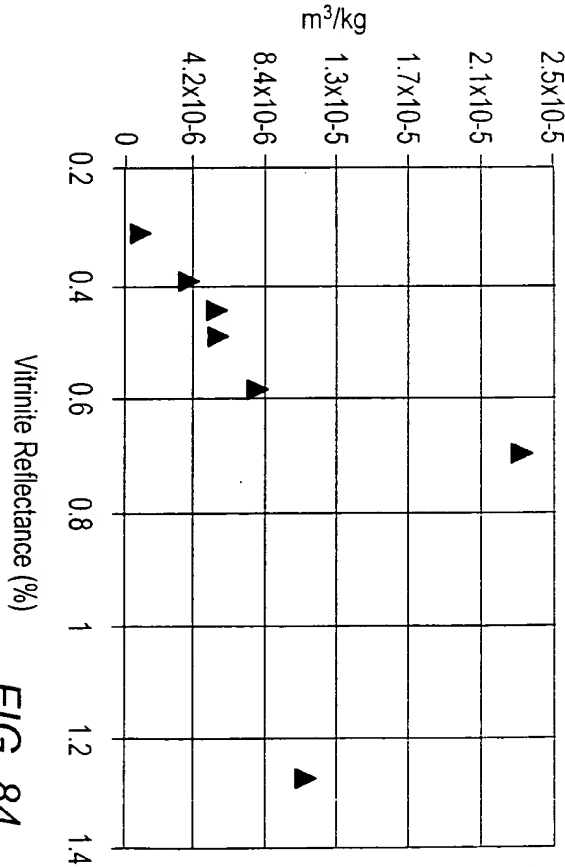


FIG. 84

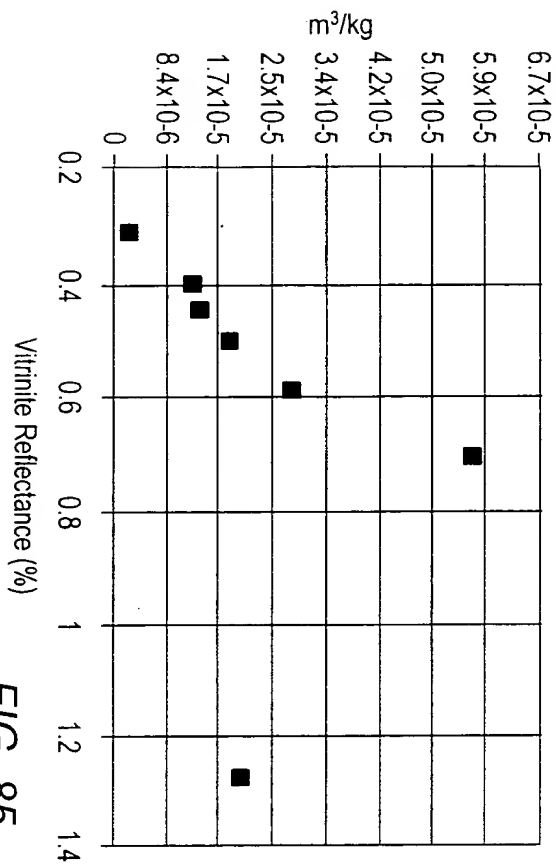


FIG. 85

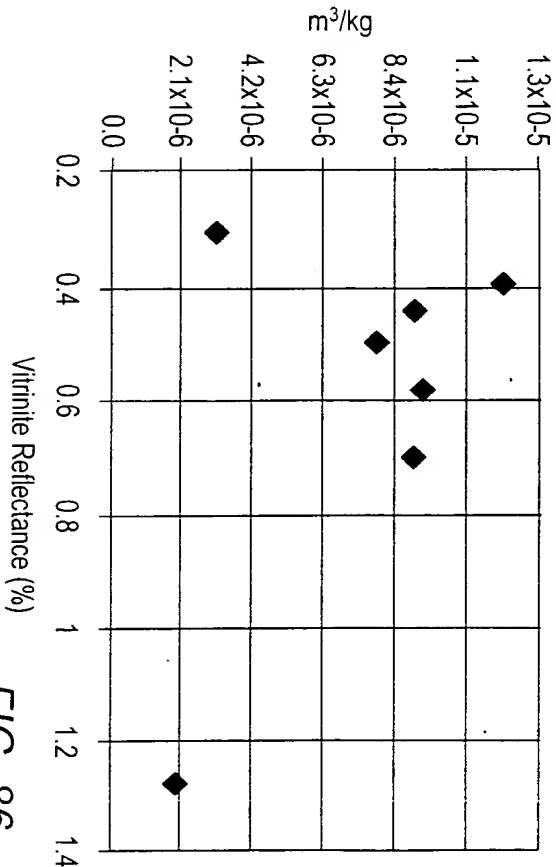


FIG. 86



Figure 87 is a scatter plot showing the relationship between API Gravity (°) and Vitrinite Reflectance (%). The Y-axis represents API Gravity (°) ranging from 20 to 38. The X-axis represents Vitrinite Reflectance (%) ranging from 0.2 to 1.4. The data points show a general trend of increasing API Gravity with increasing Vitrinite Reflectance, with some scatter at lower reflectance values.

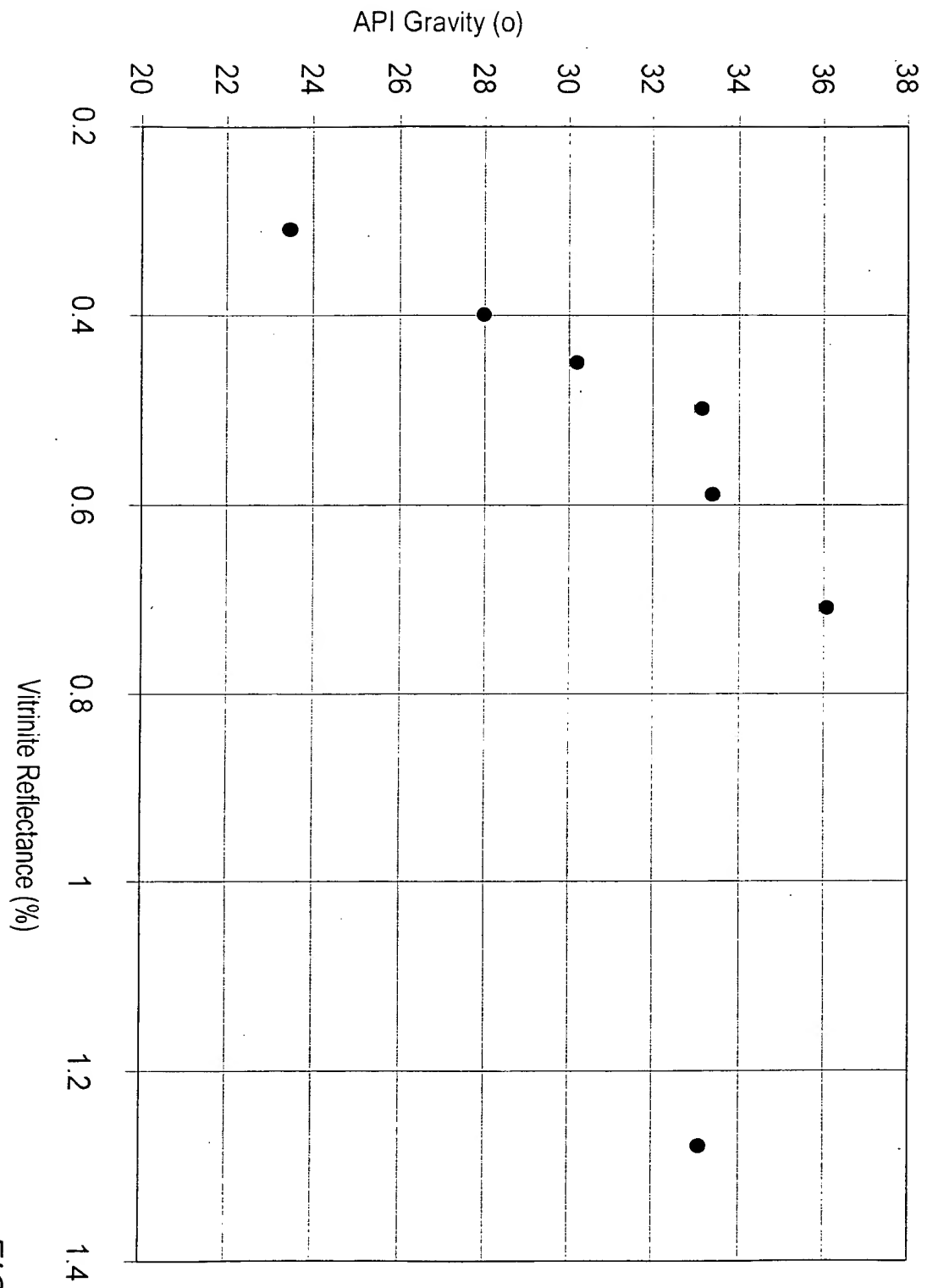
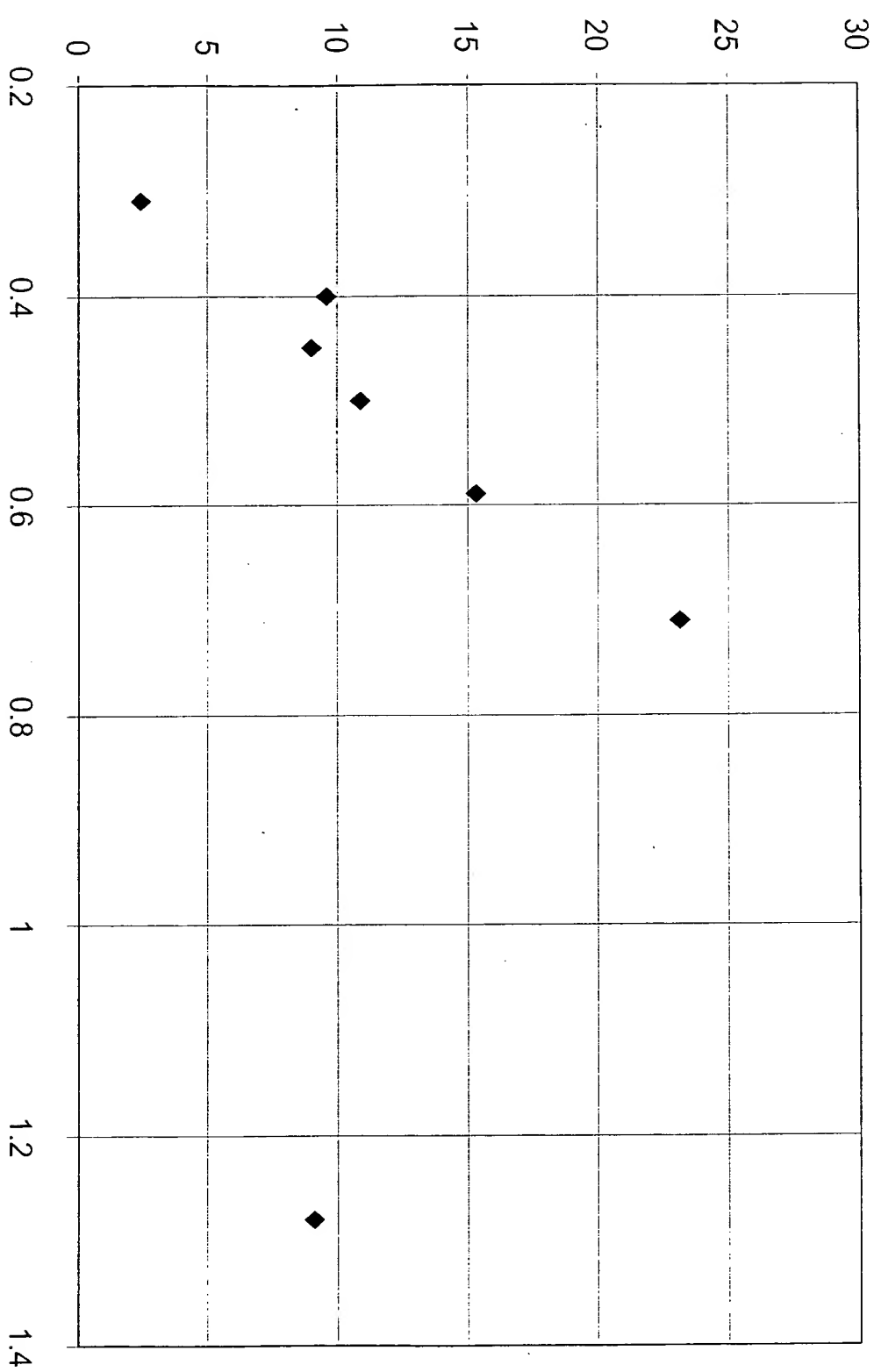


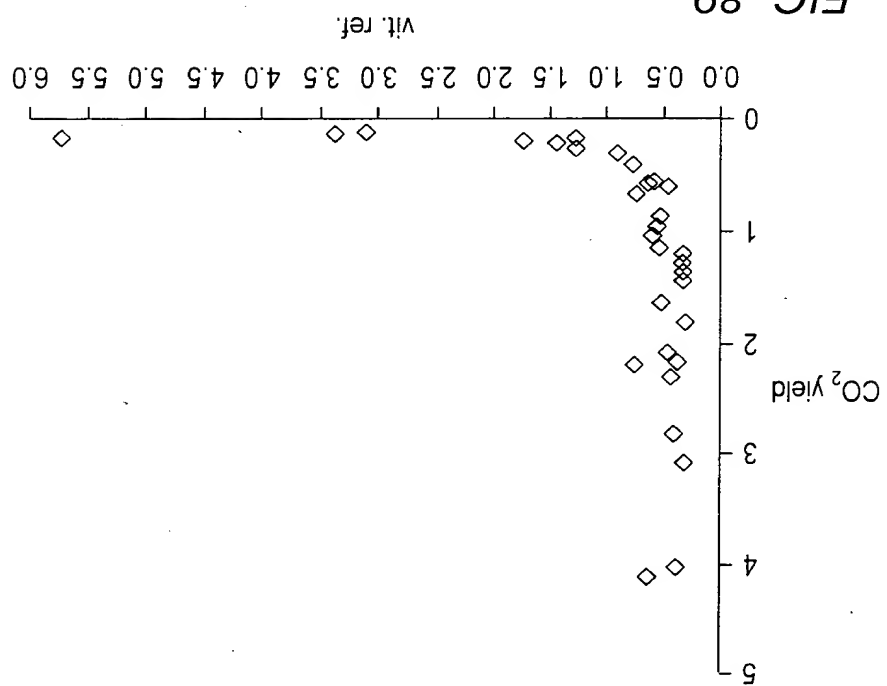
FIG. 87

0.3562



Vitrinite Reflectance (%)

FIG. 88



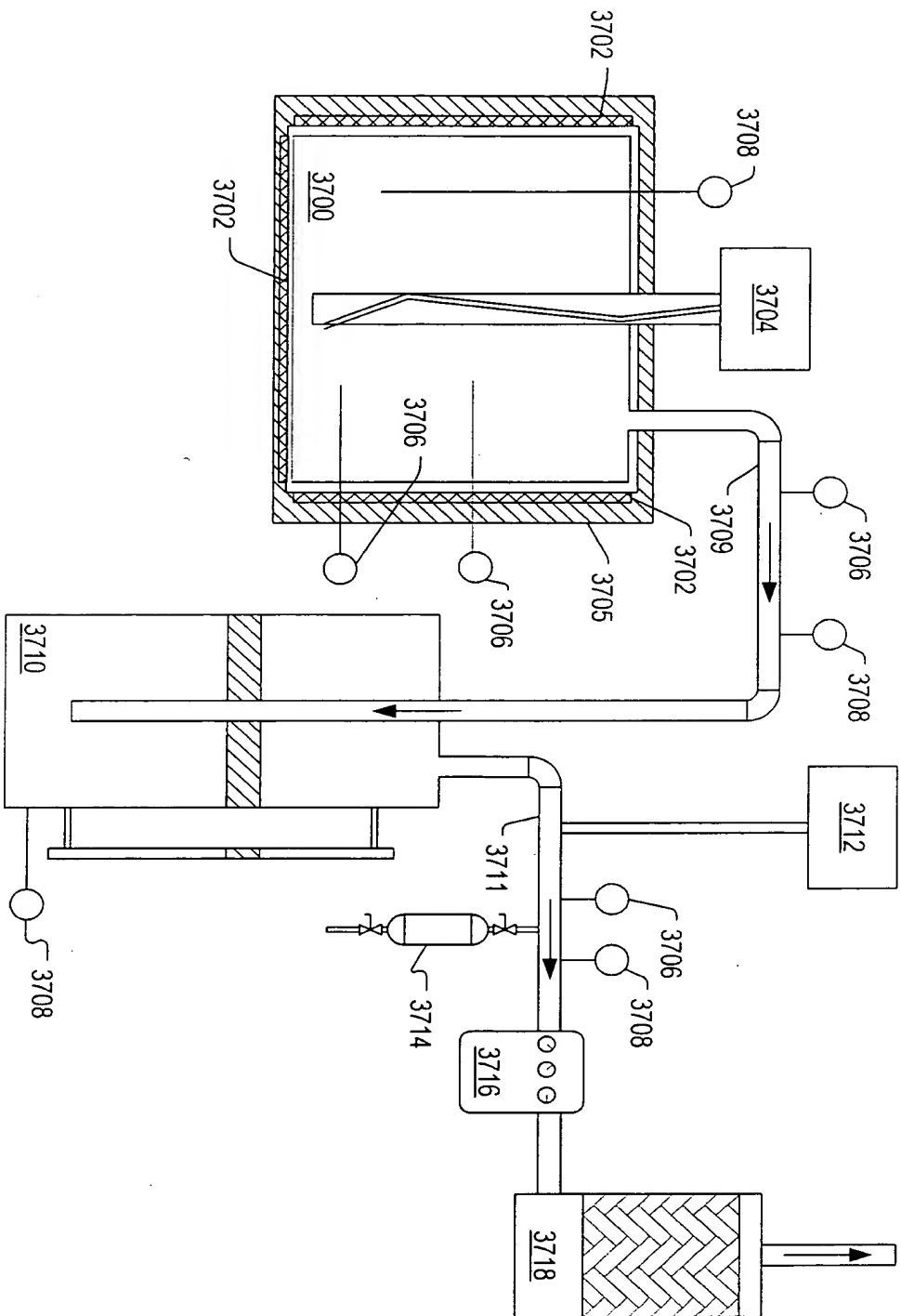


FIG. 91

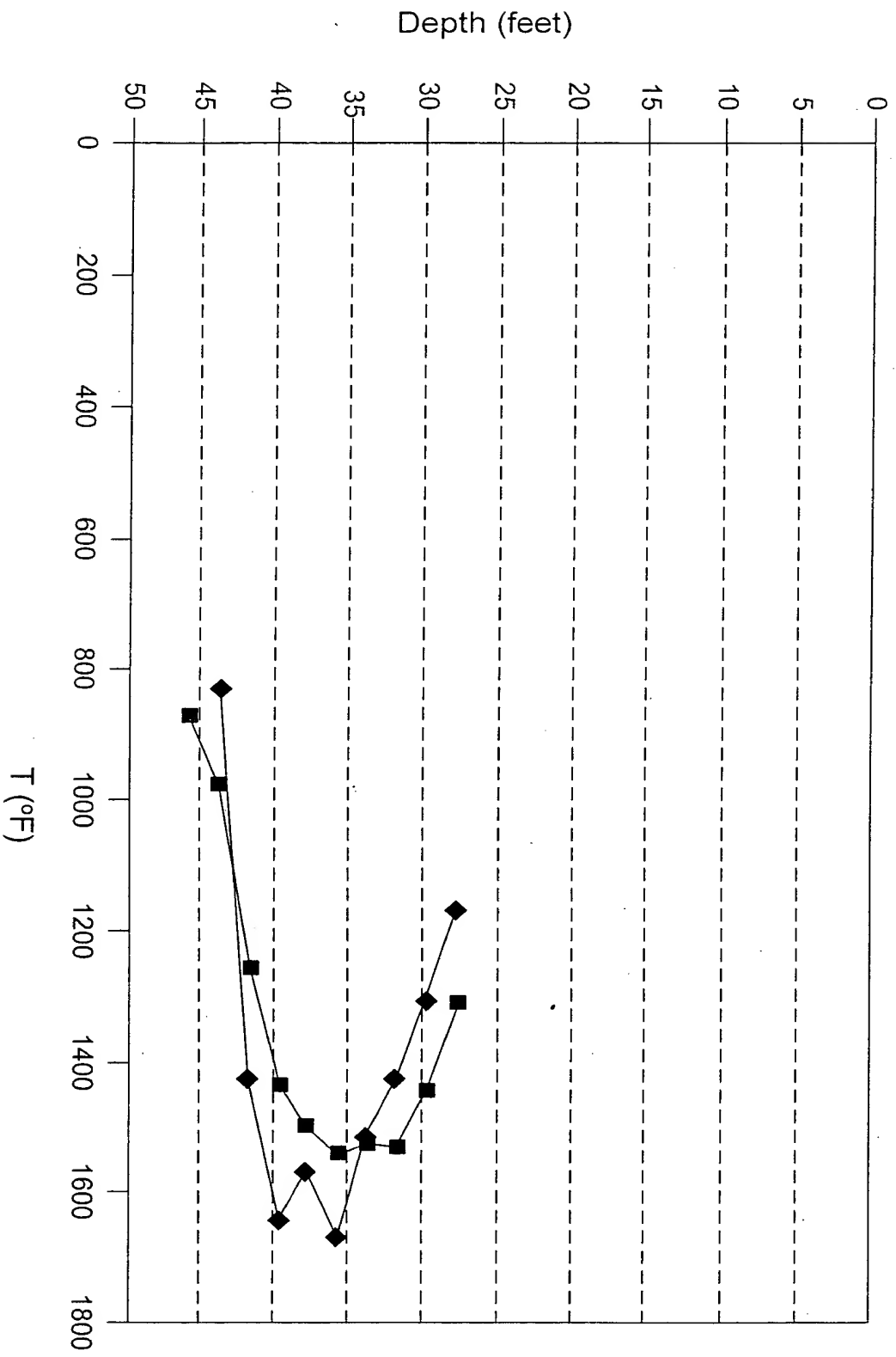


FIG. 92

FIG. 93

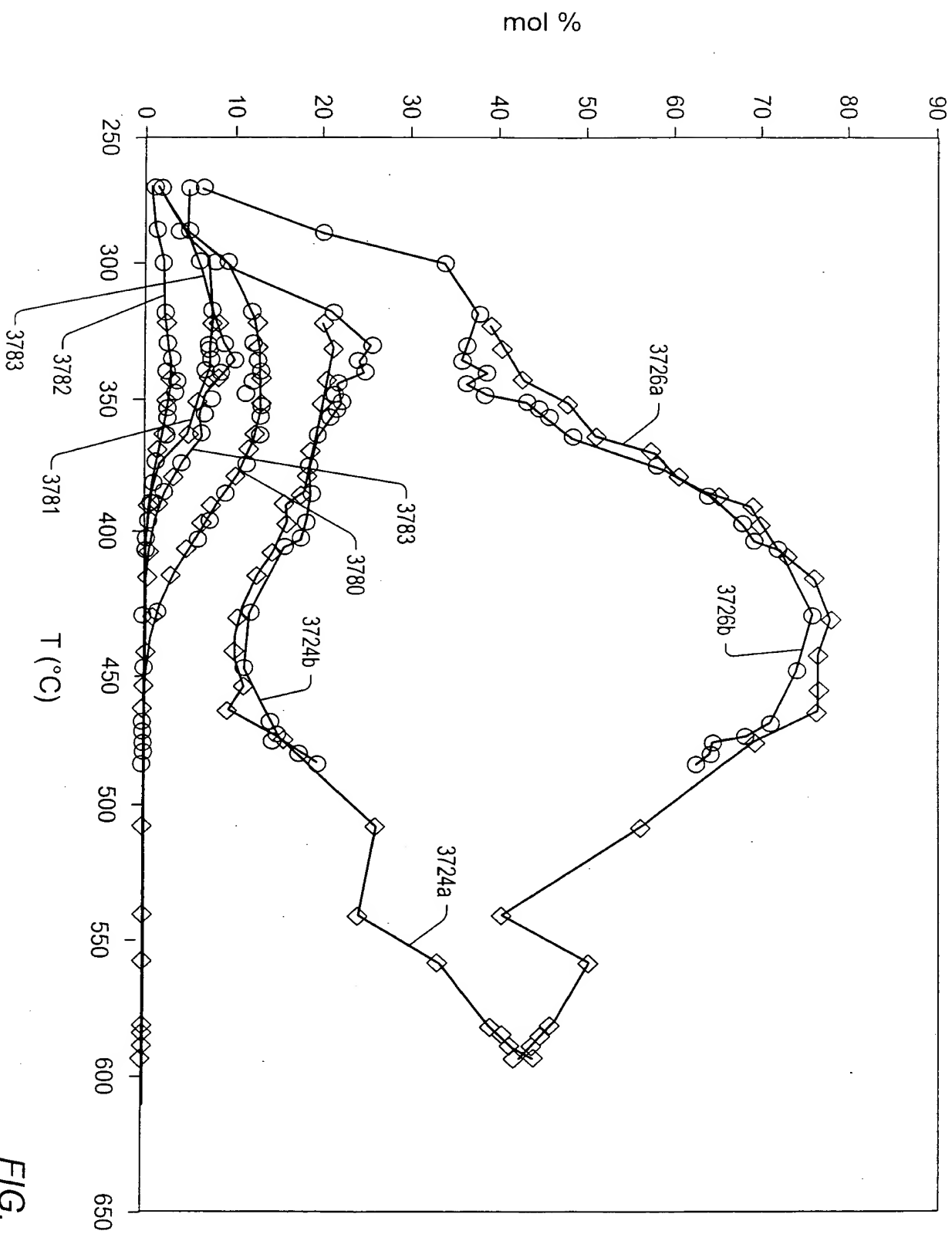


FIG. 93

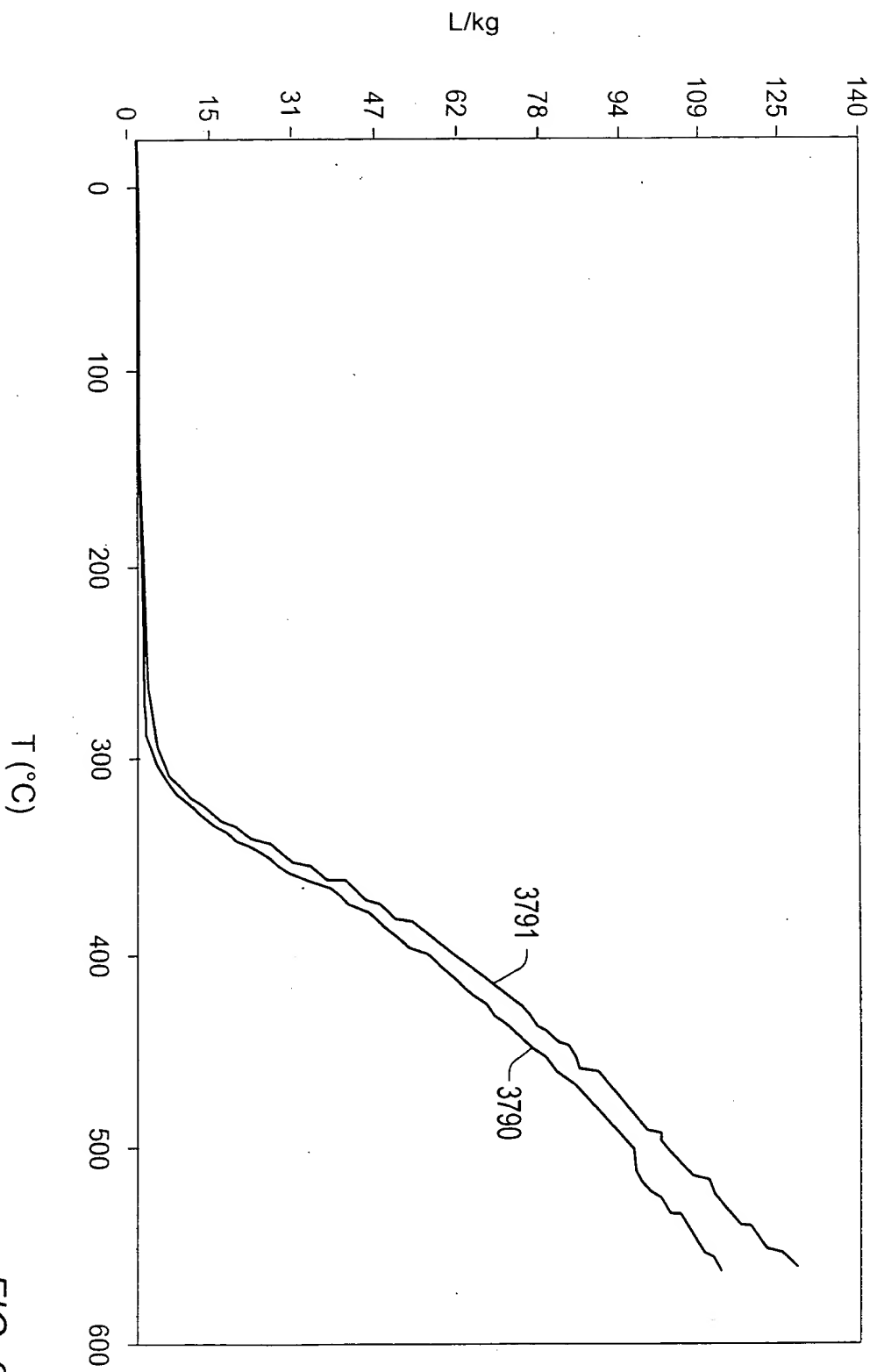


FIG. 95

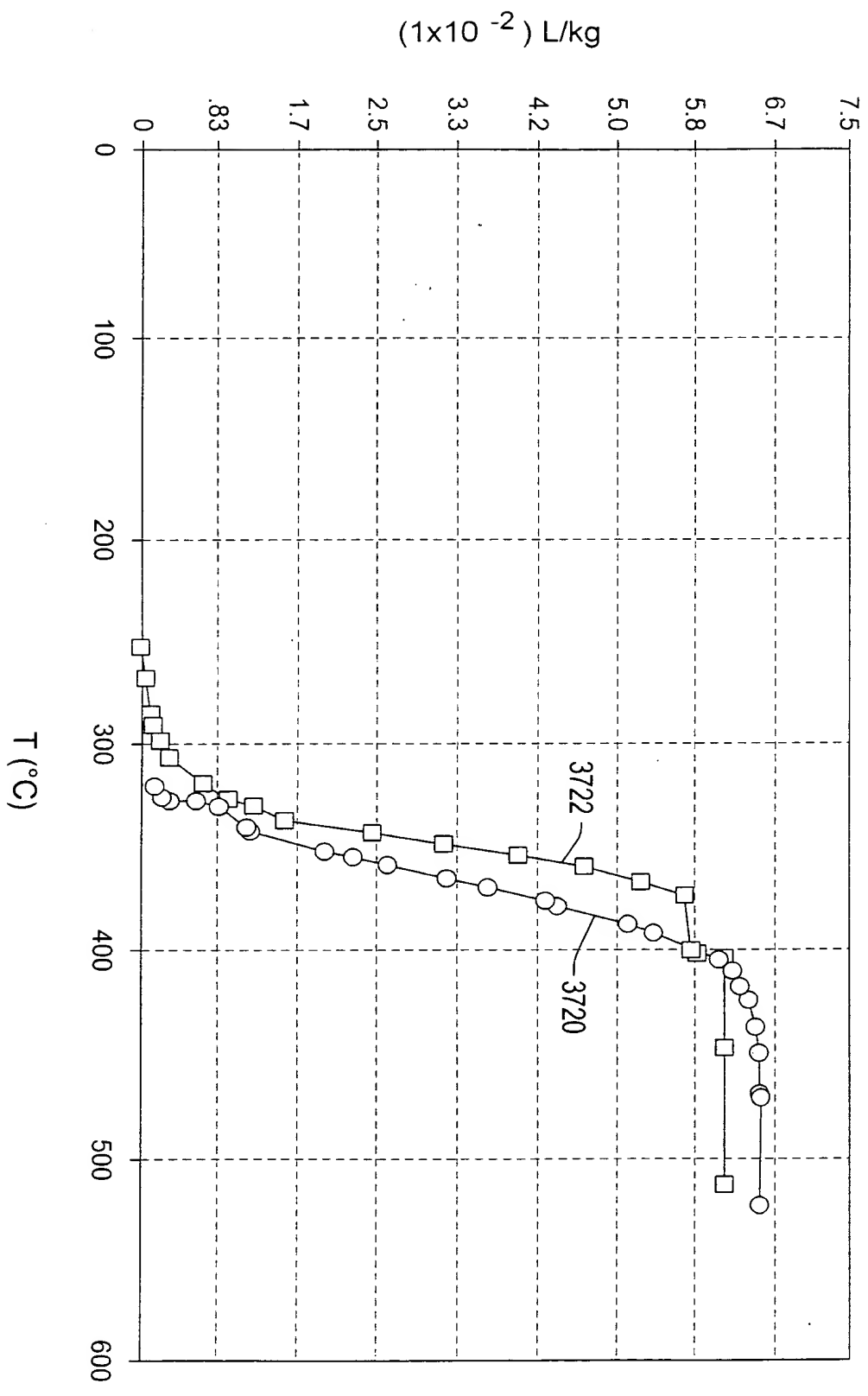


FIG. 95



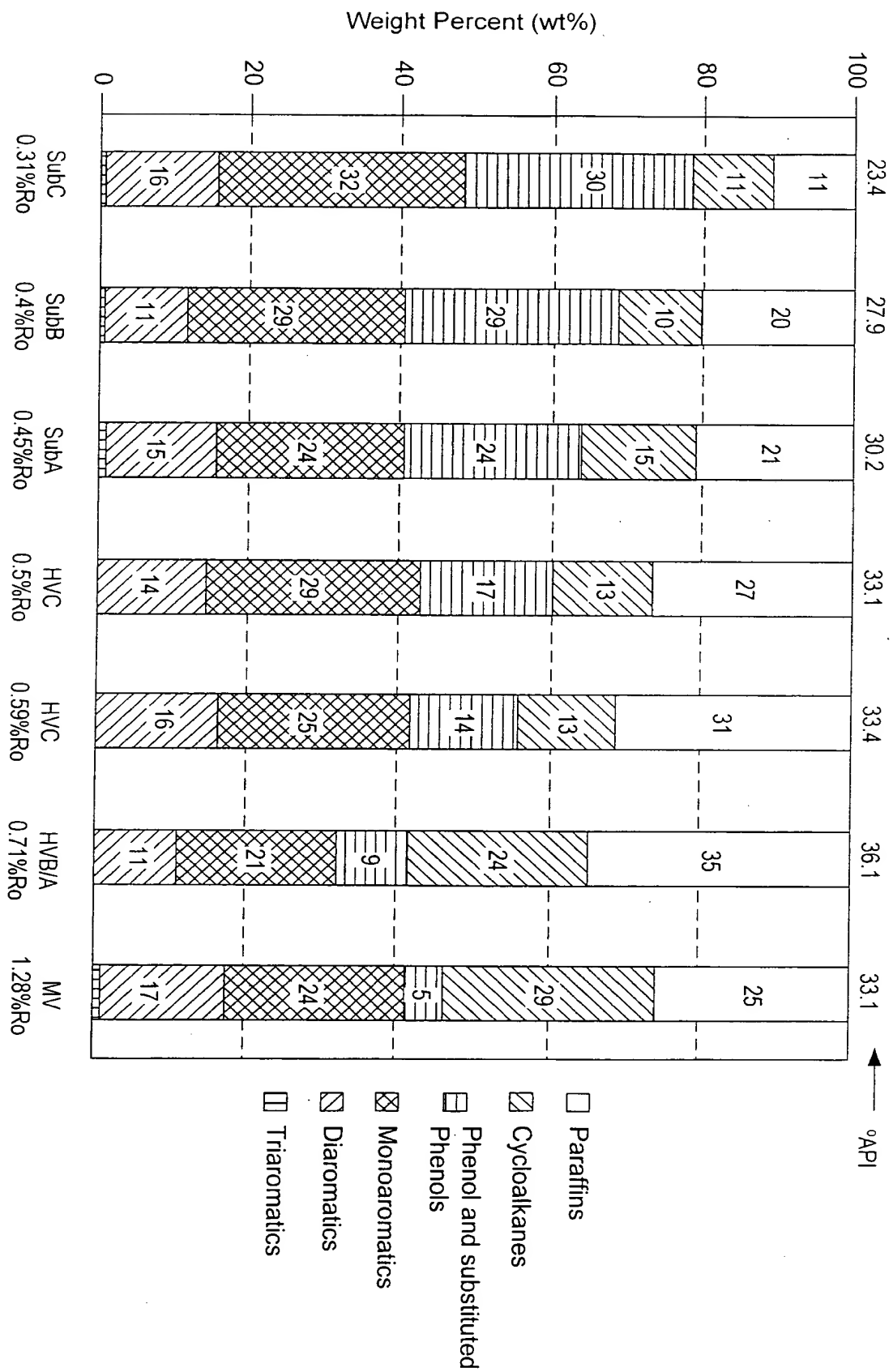


FIG. 96

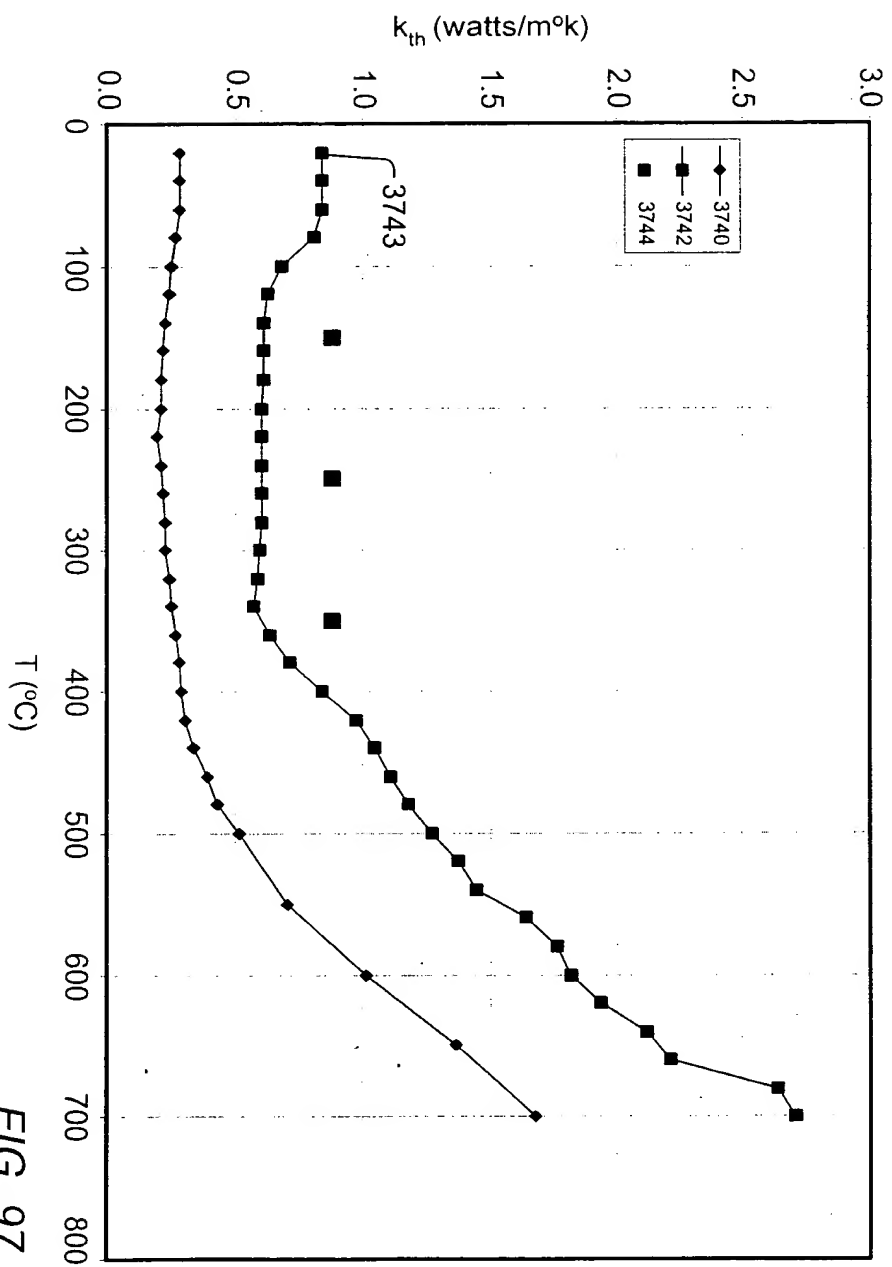
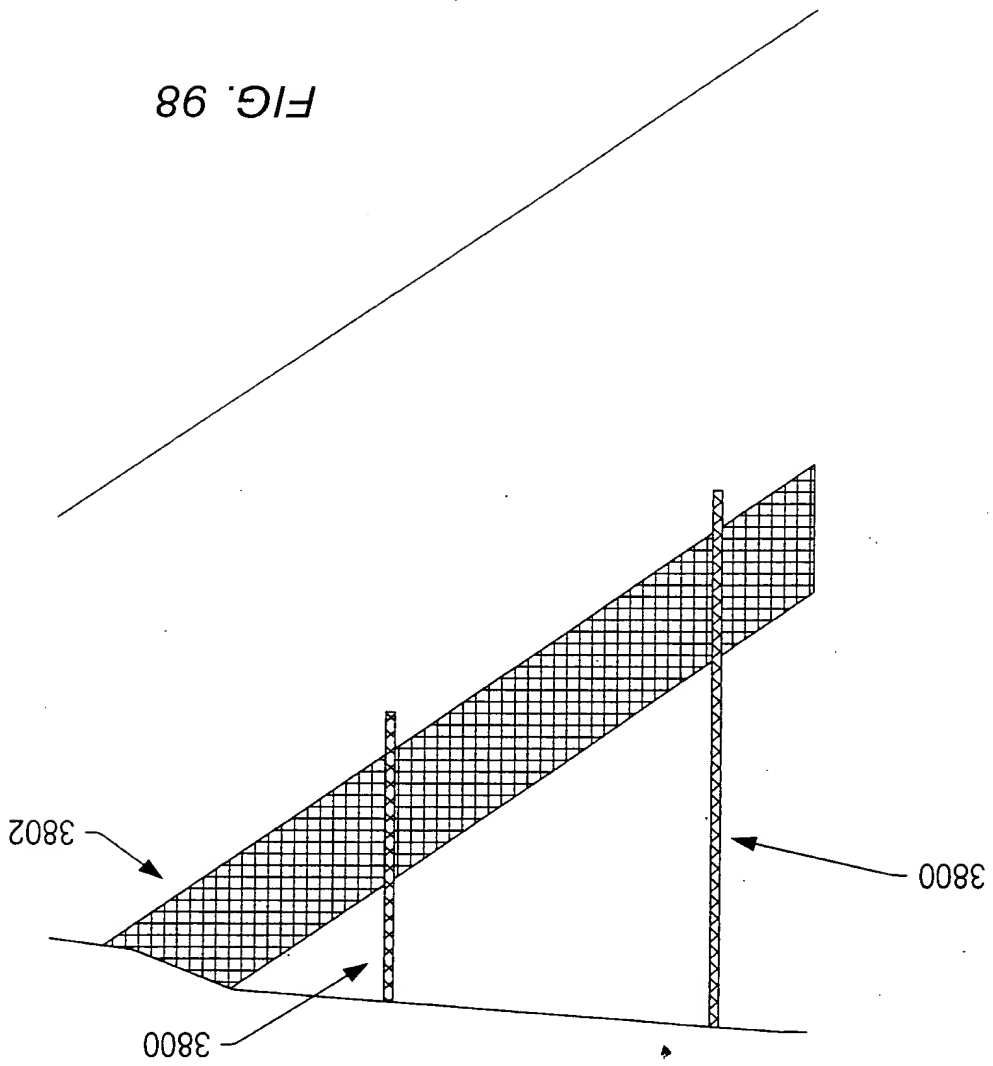


FIG. 97



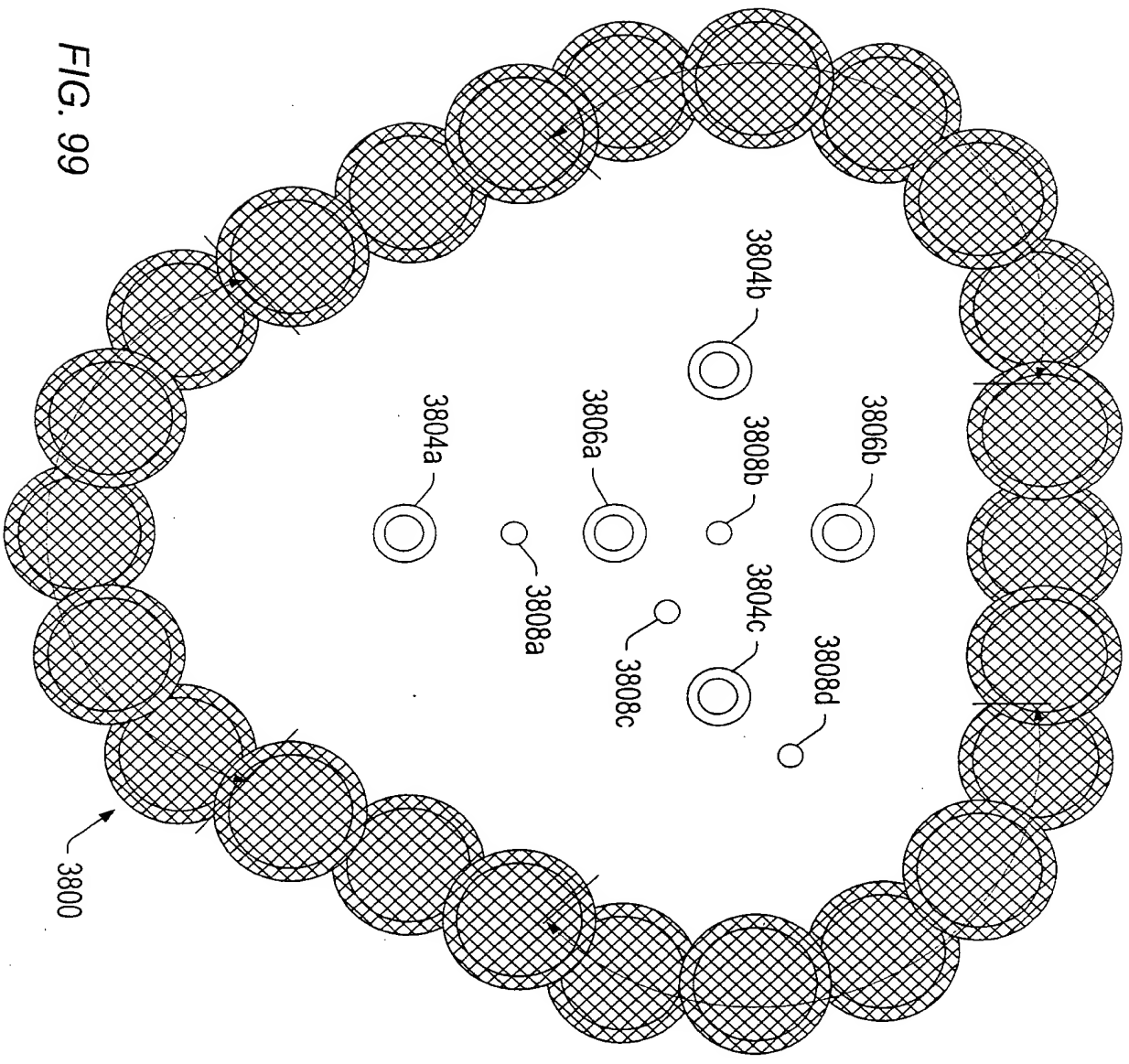


FIG. 99

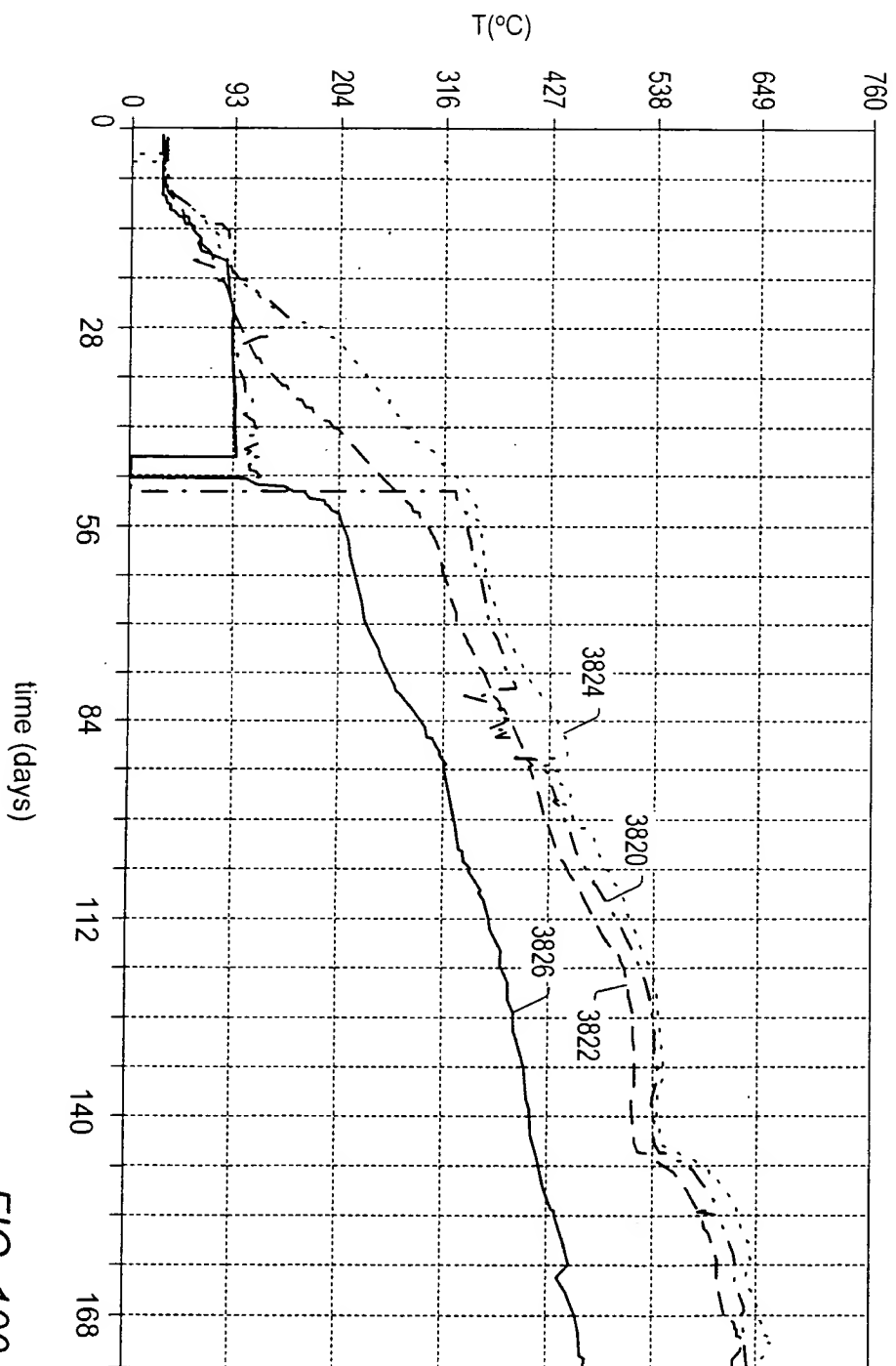


FIG. 100

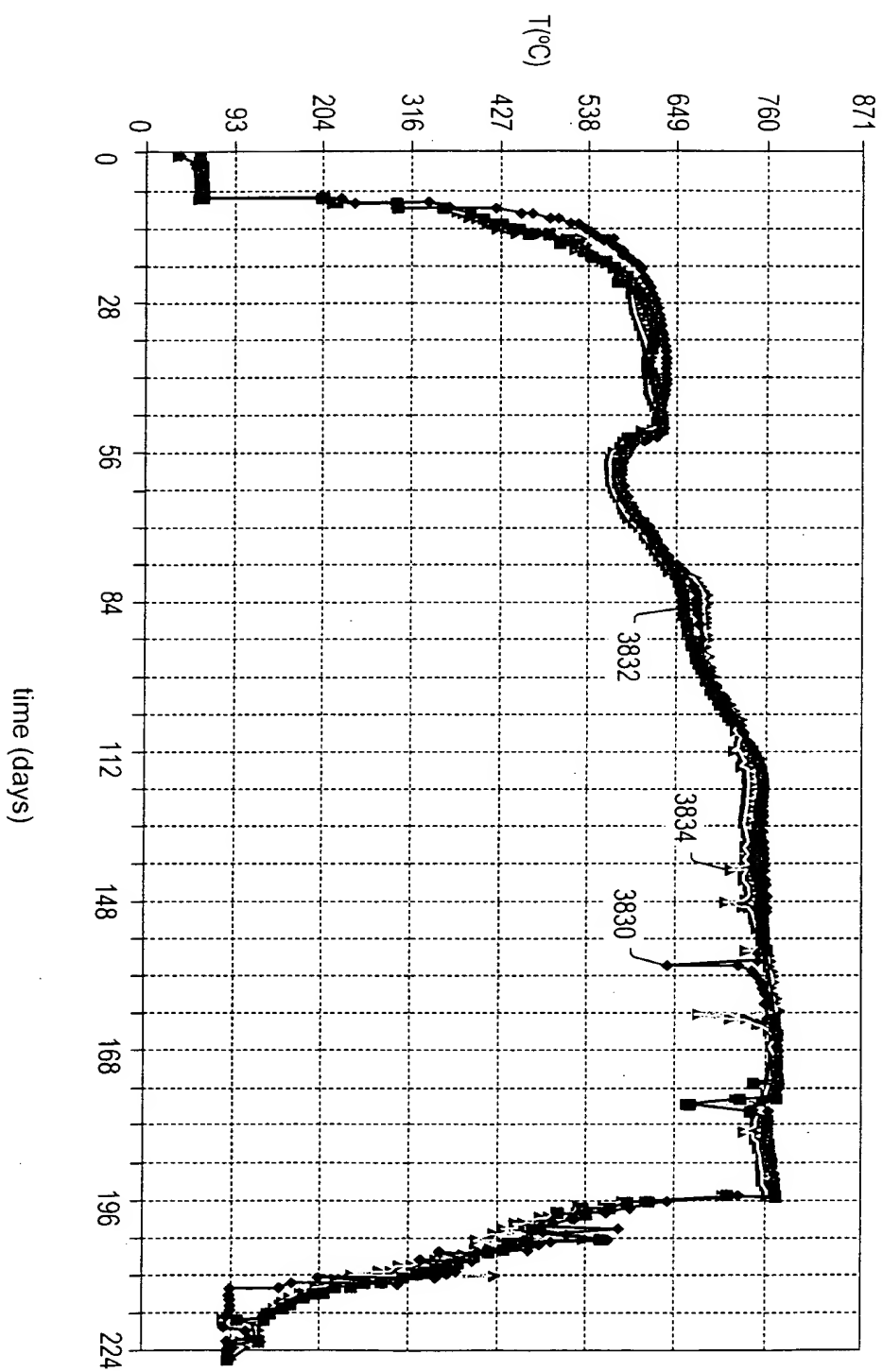


FIG. 101

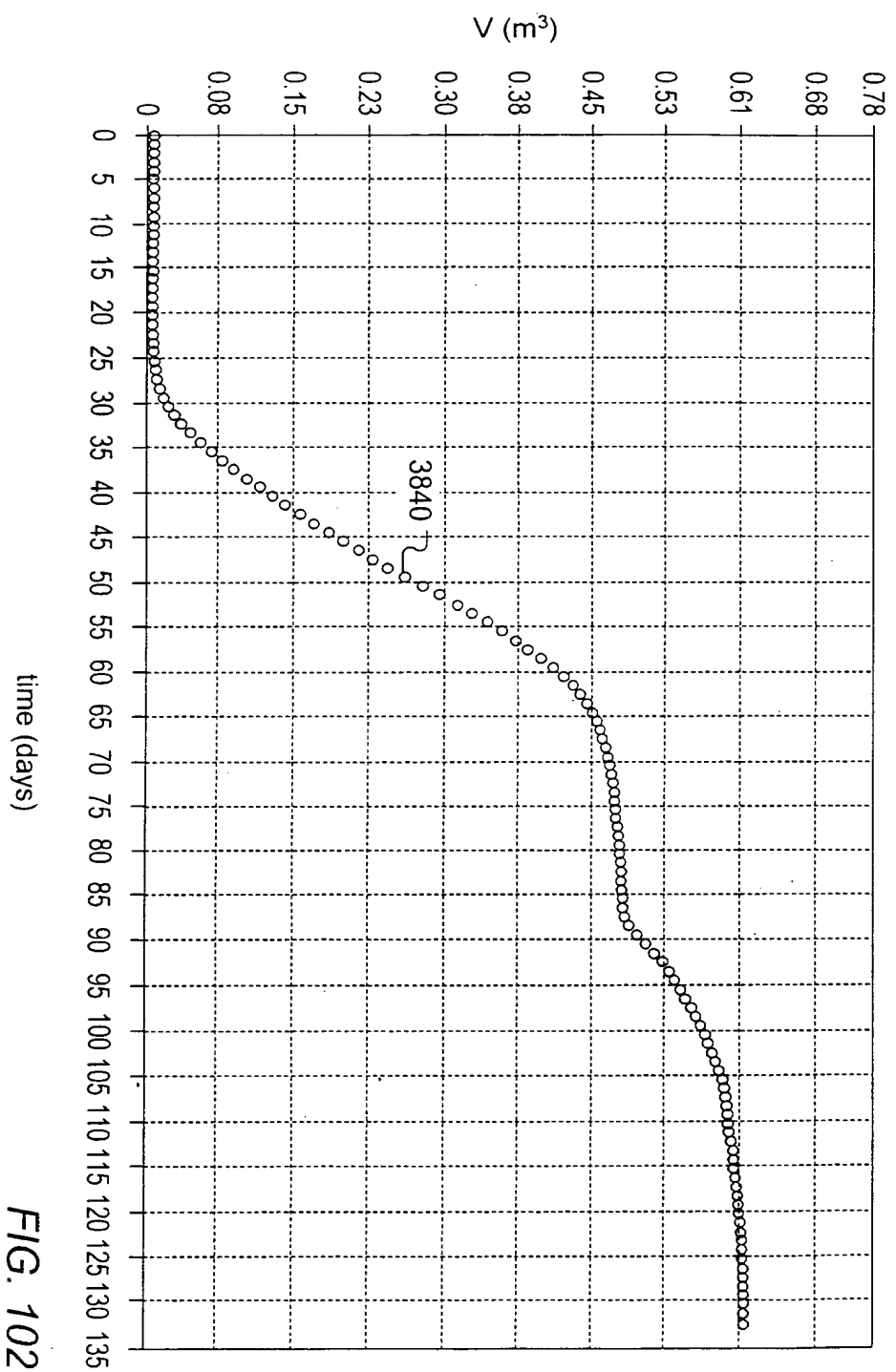


FIG. 102

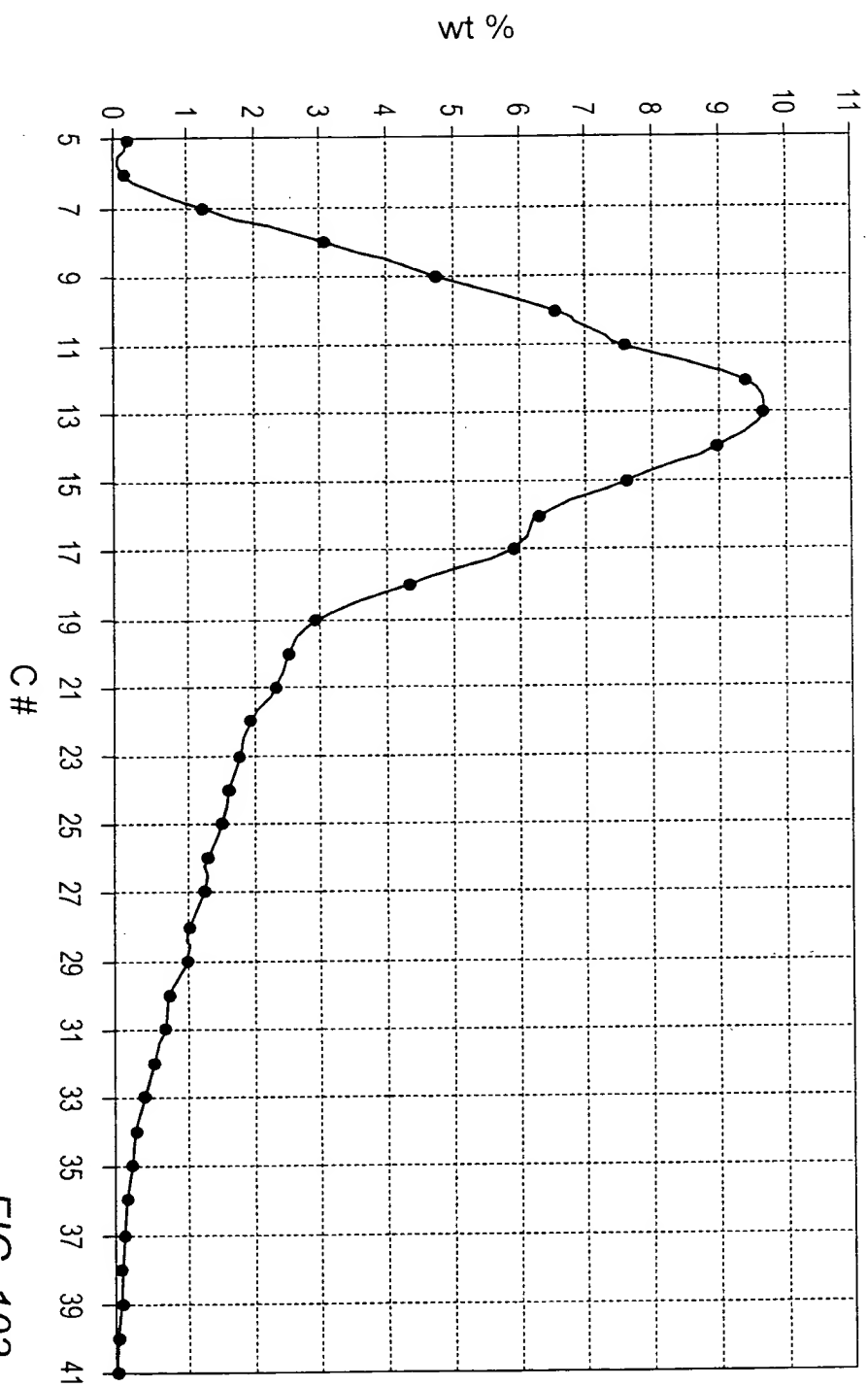


FIG. 103



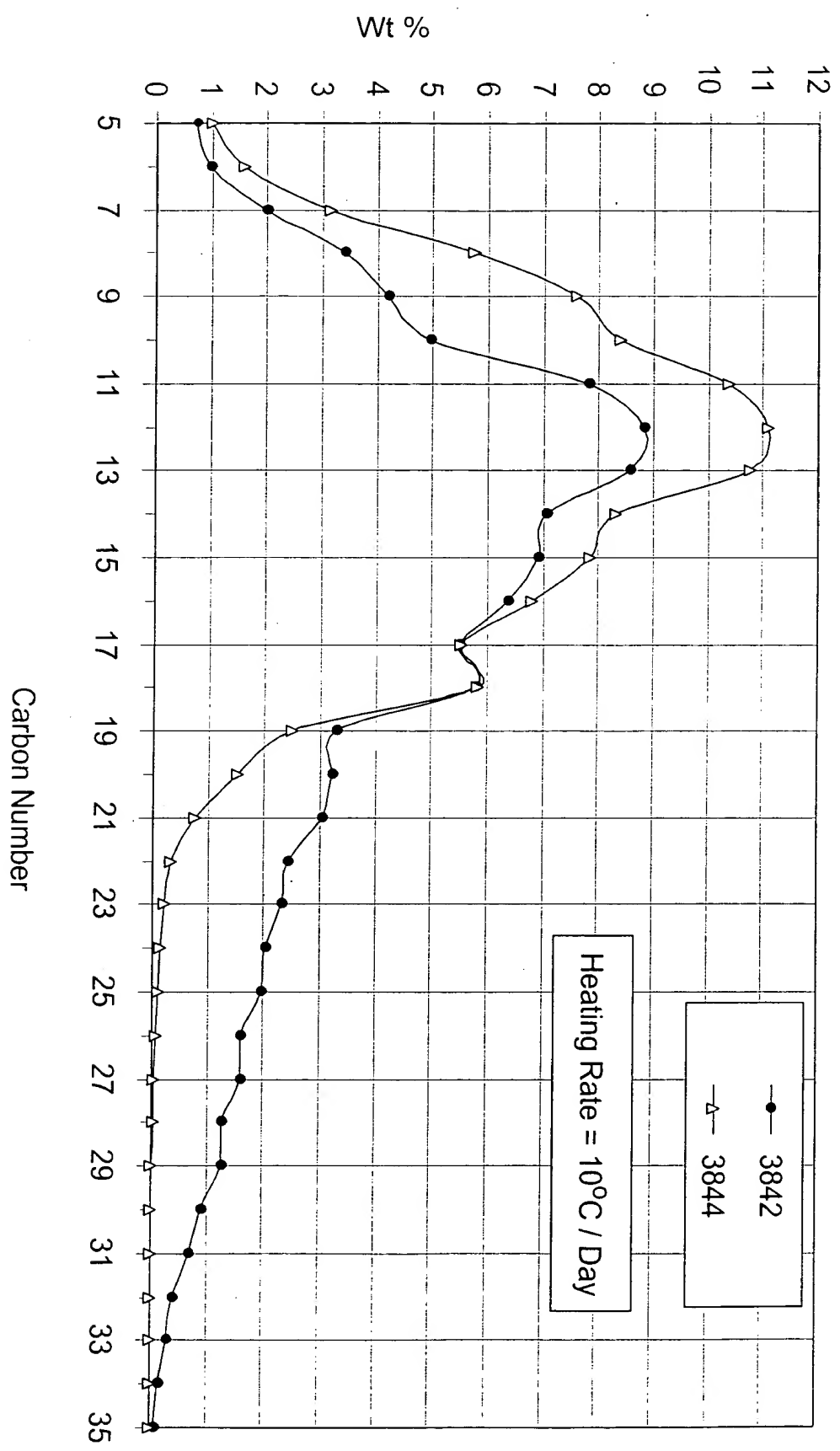


FIG. 104

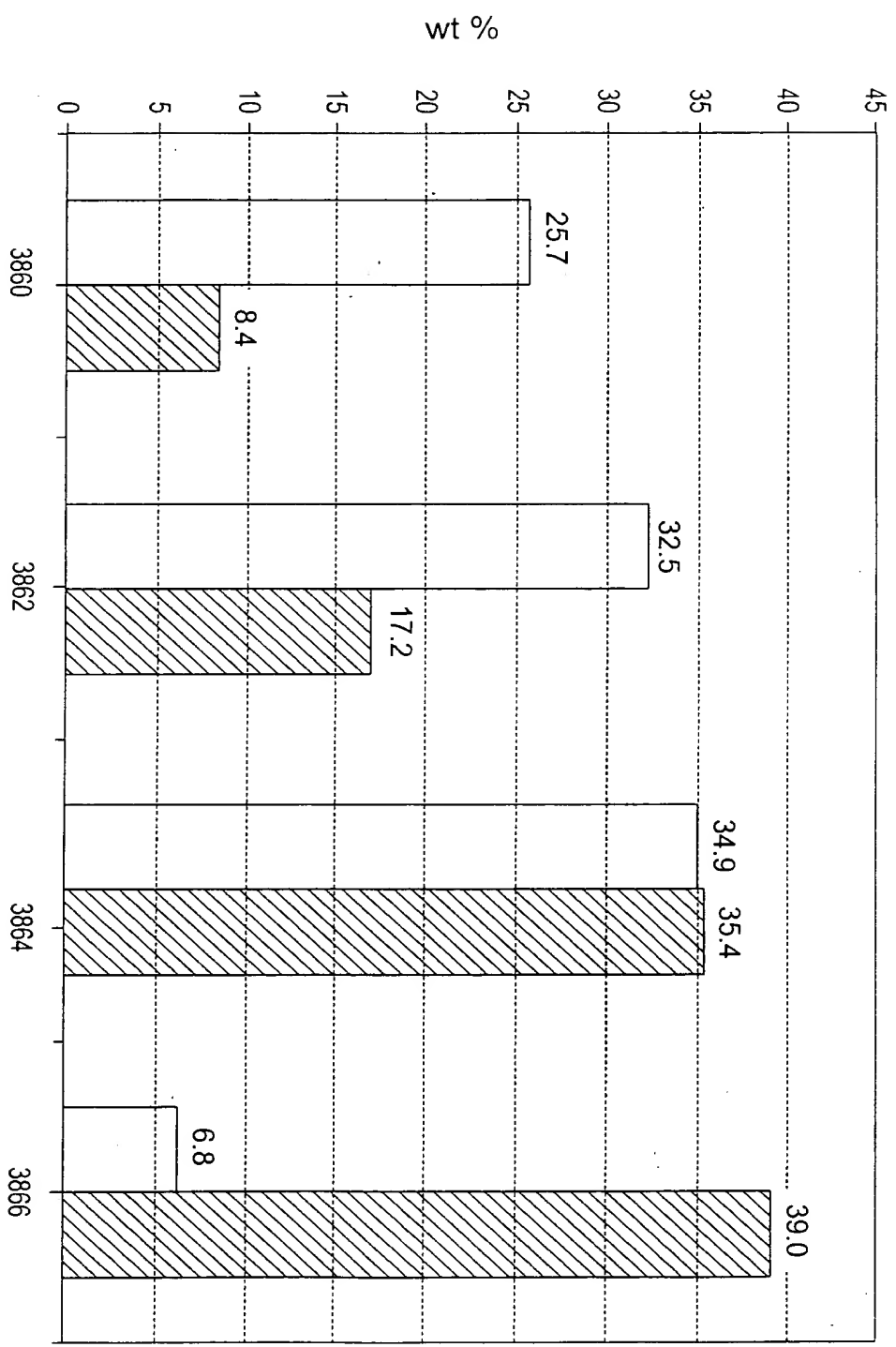


FIG. 105

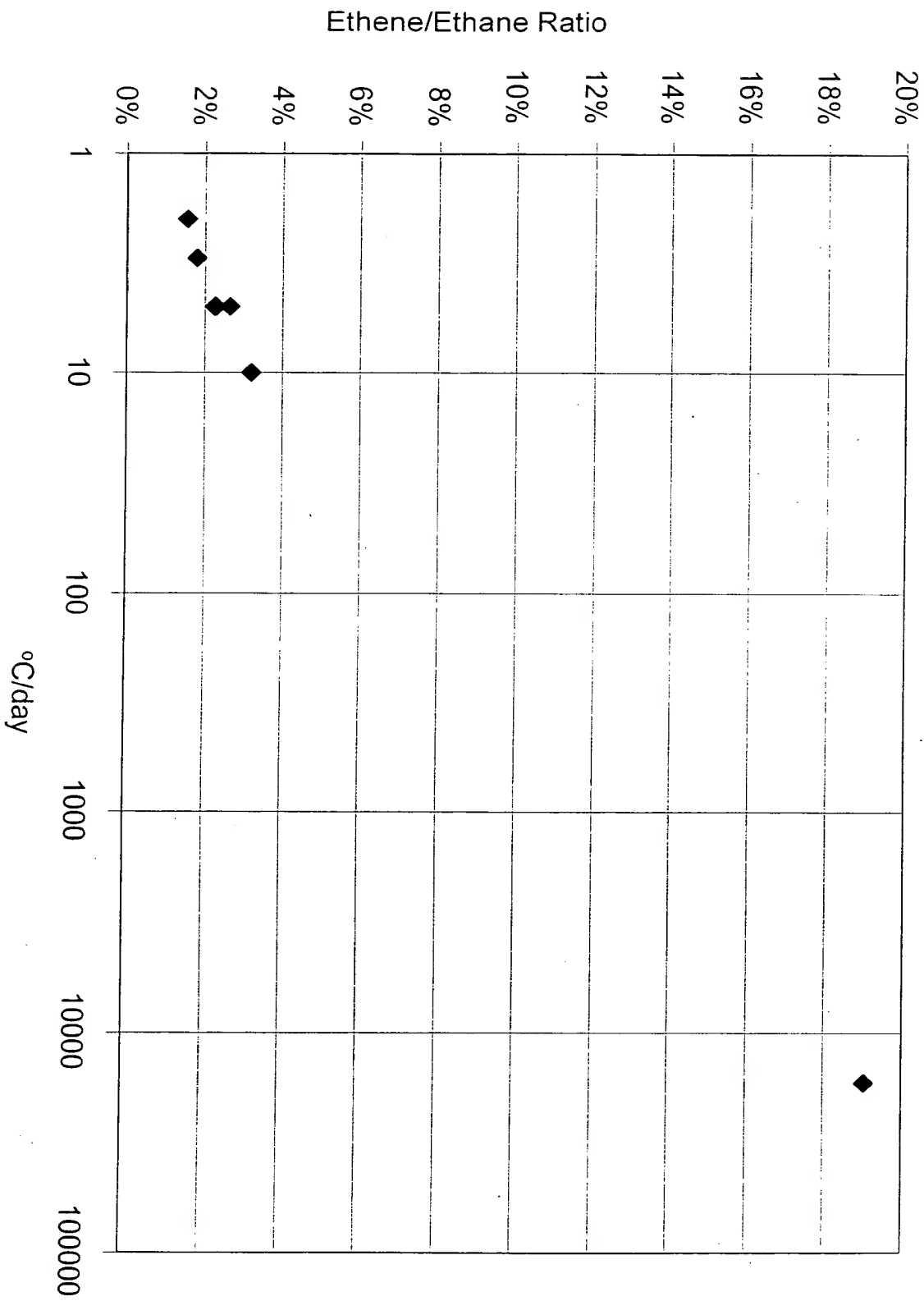


FIG. 106

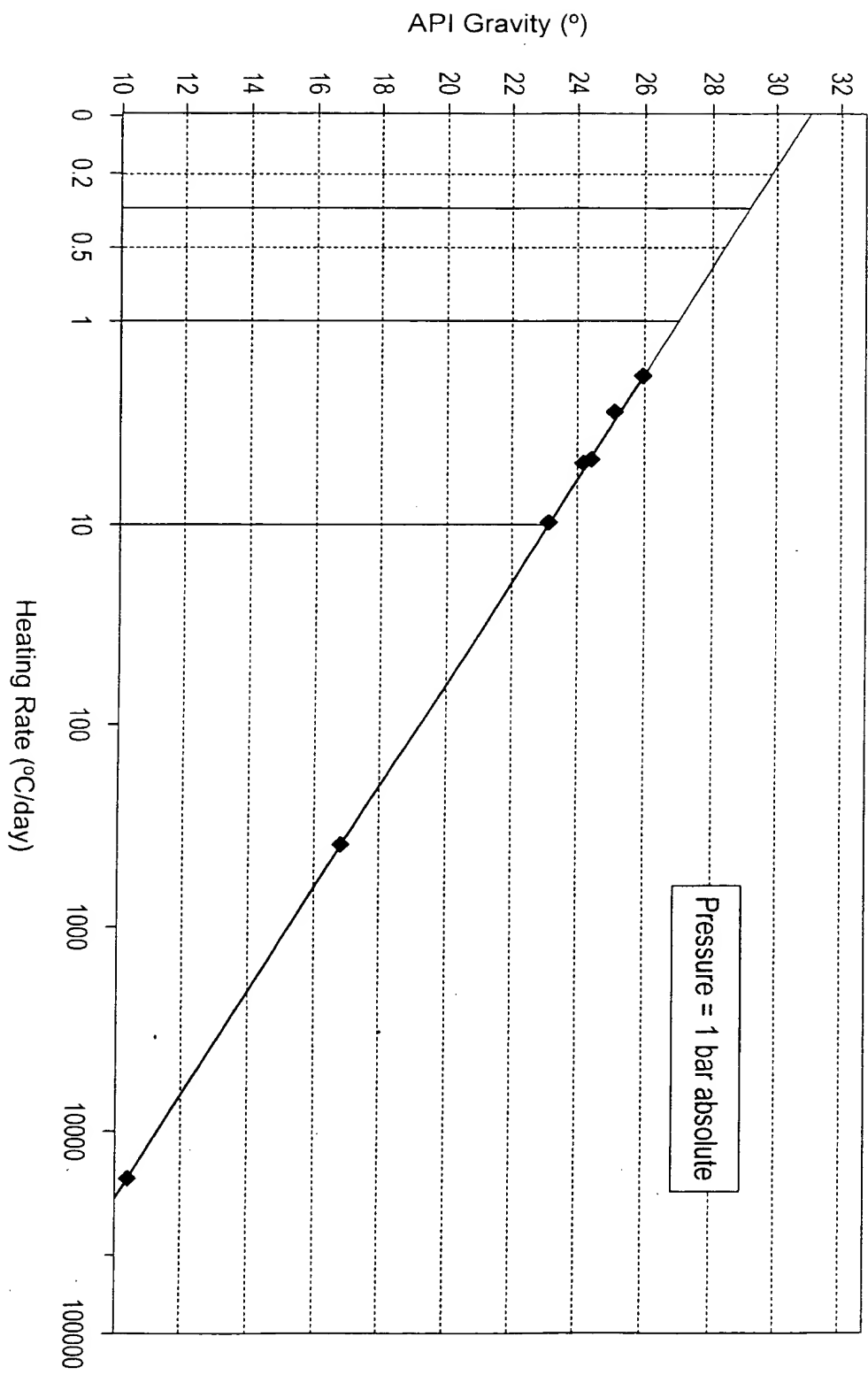


FIG. 107

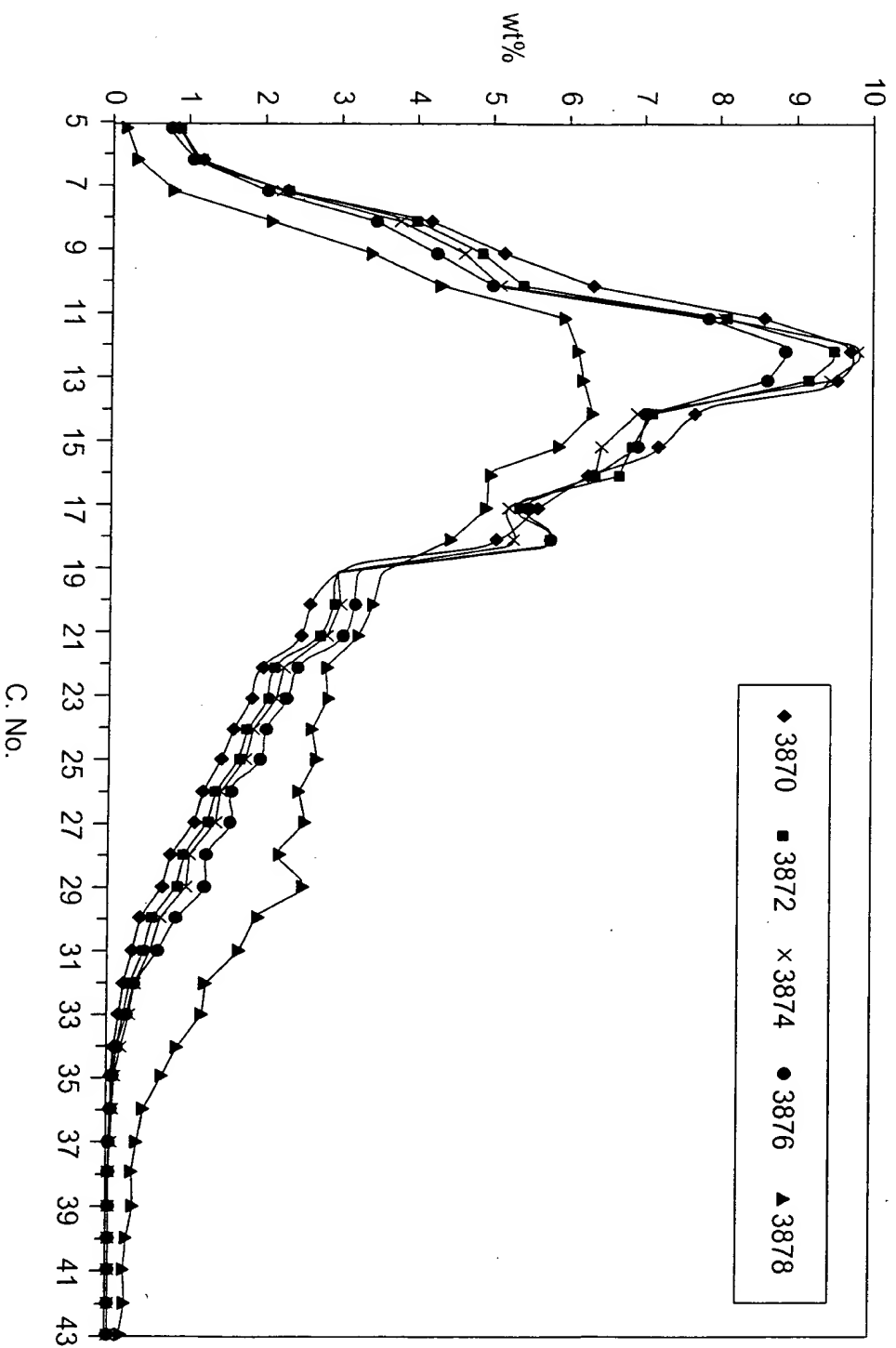


FIG. 108

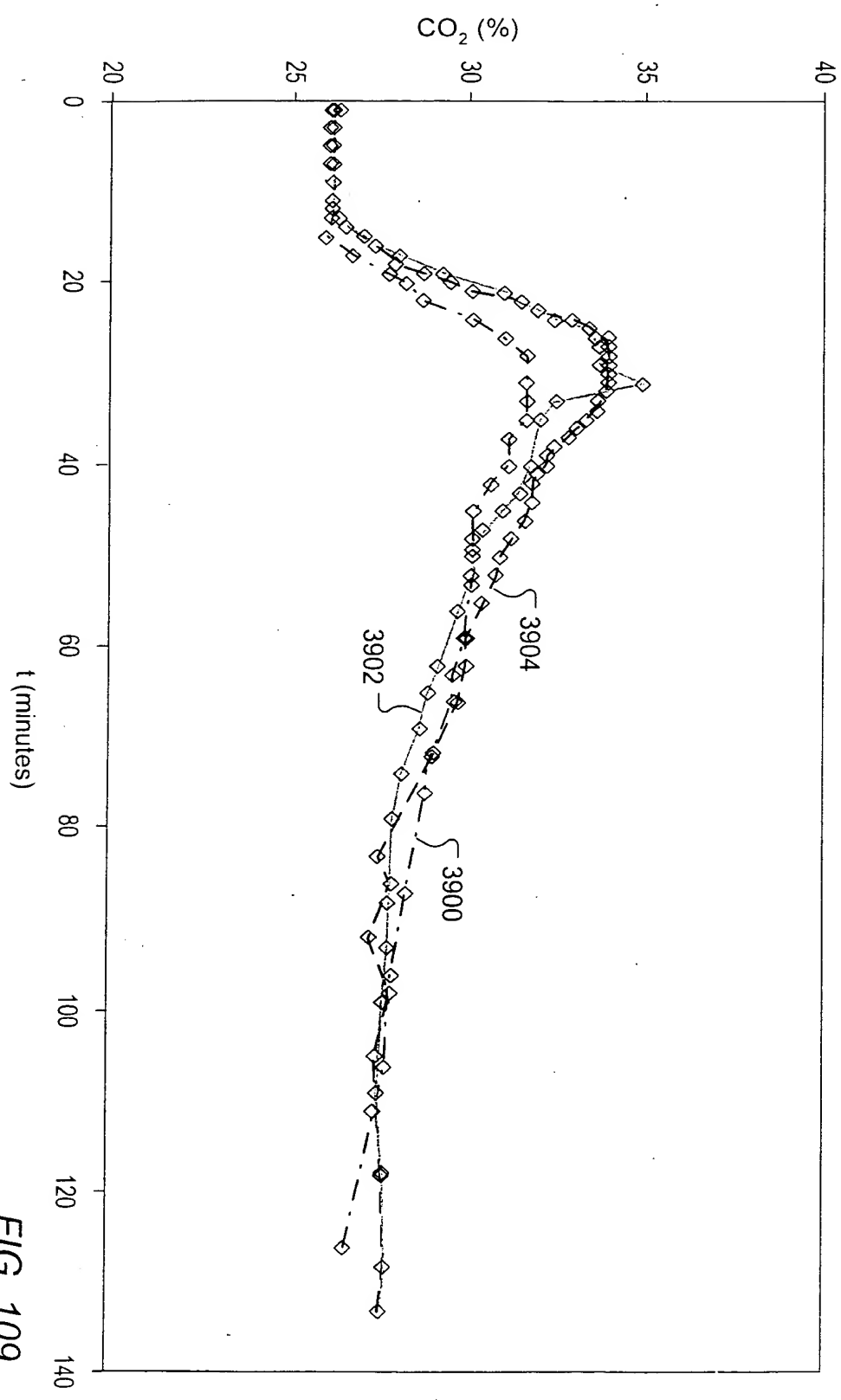


FIG. 109

1000 800 600 400 200 0

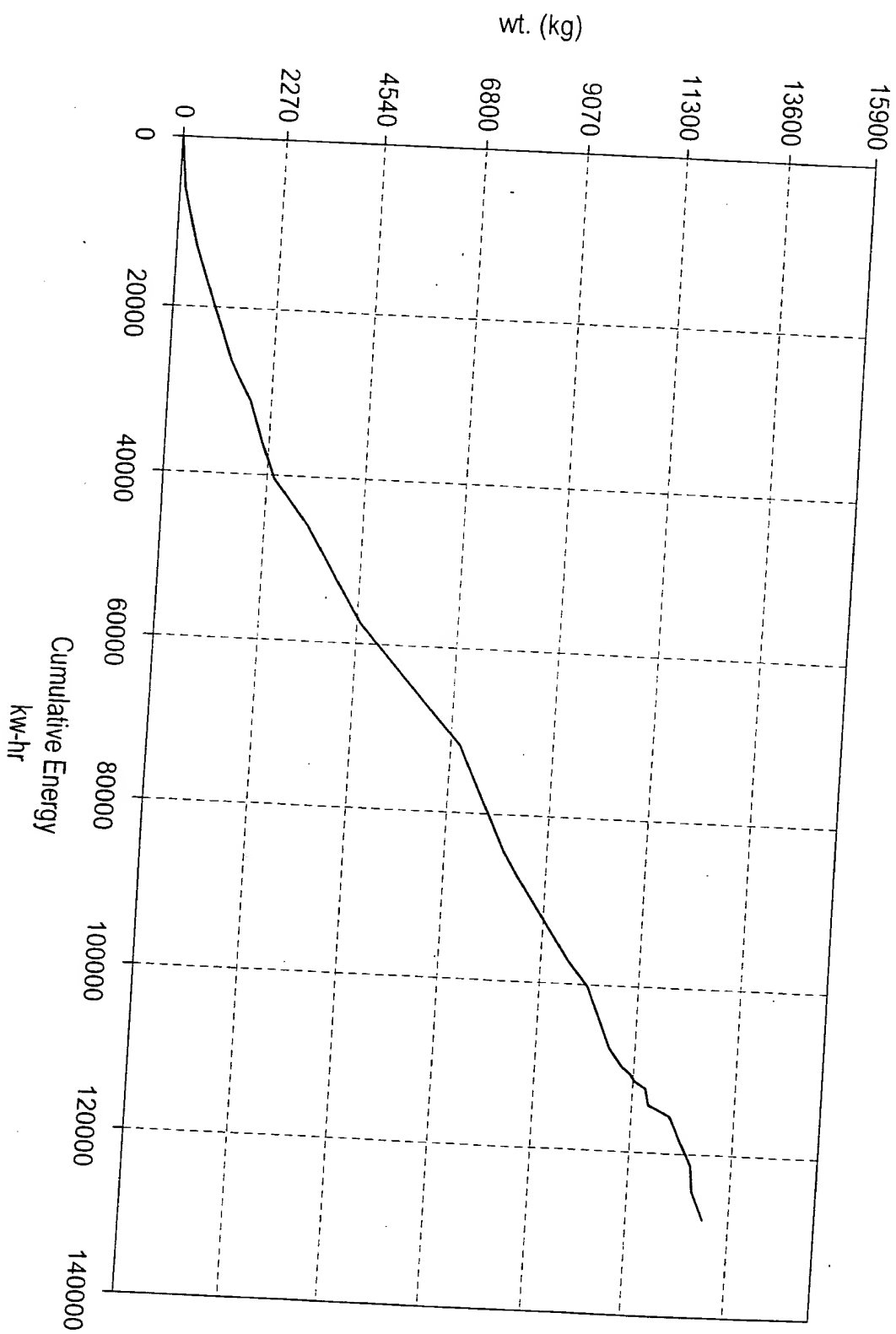


FIG. 110

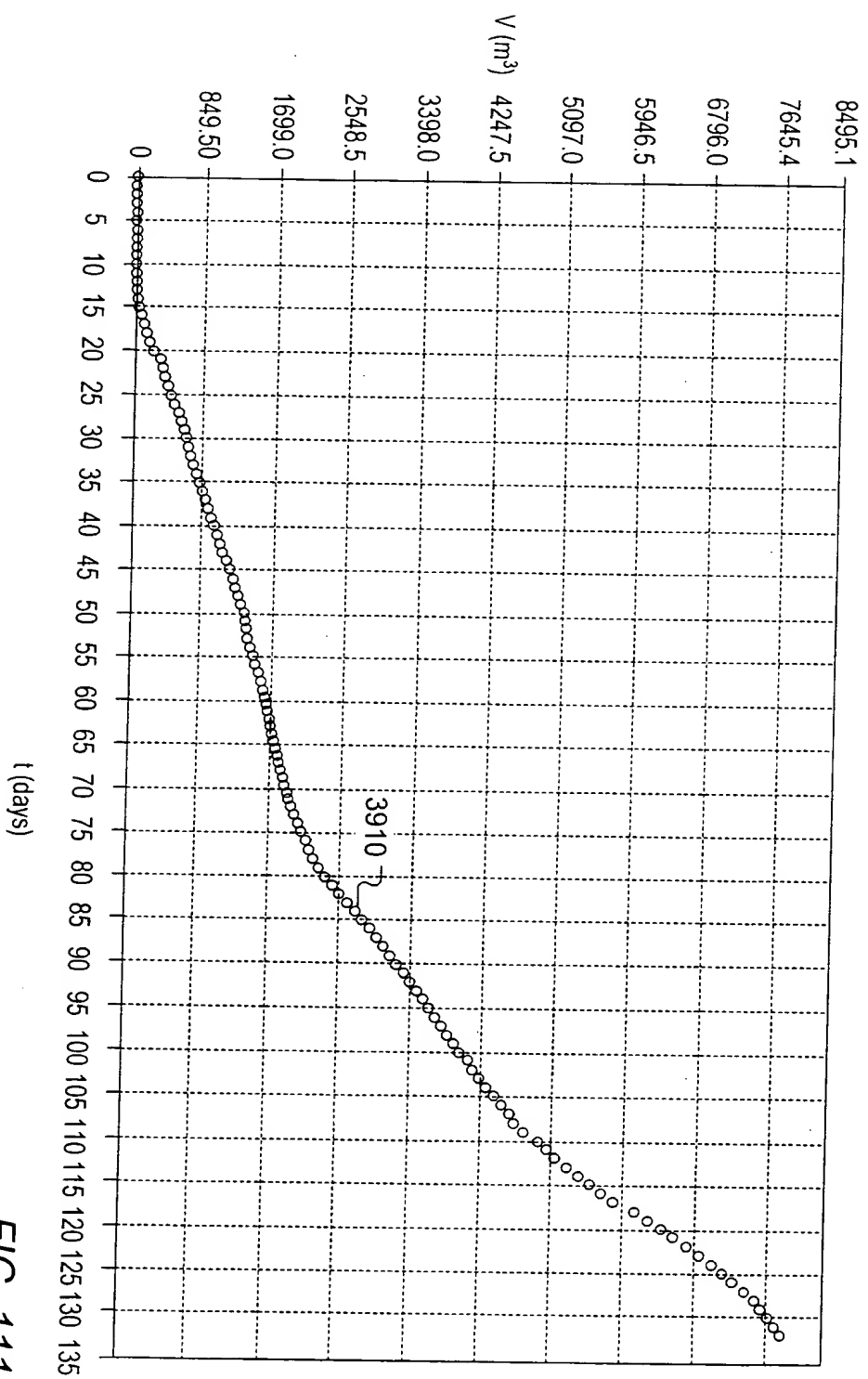


FIG. 111



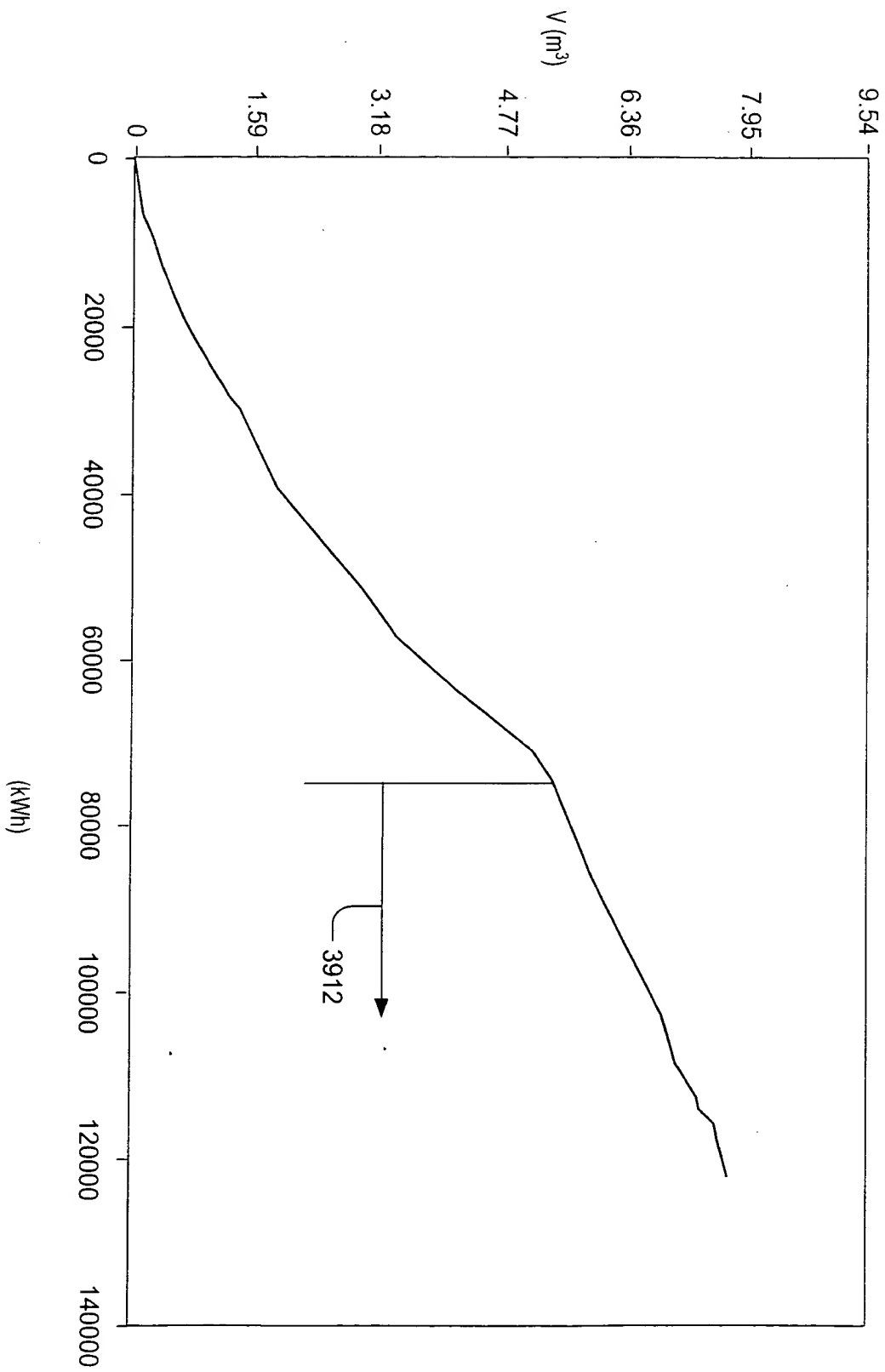


FIG. 112

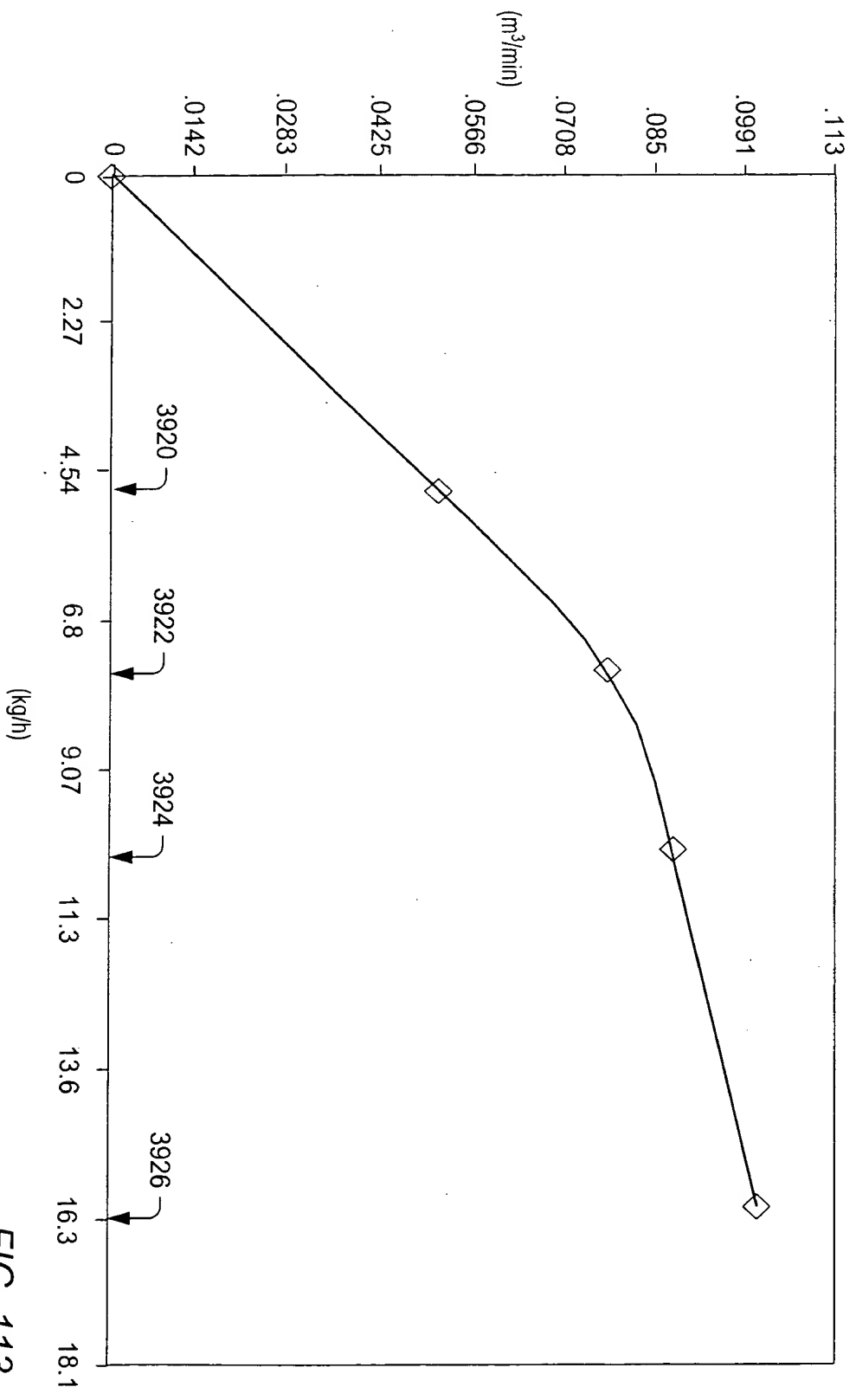


FIG. 113

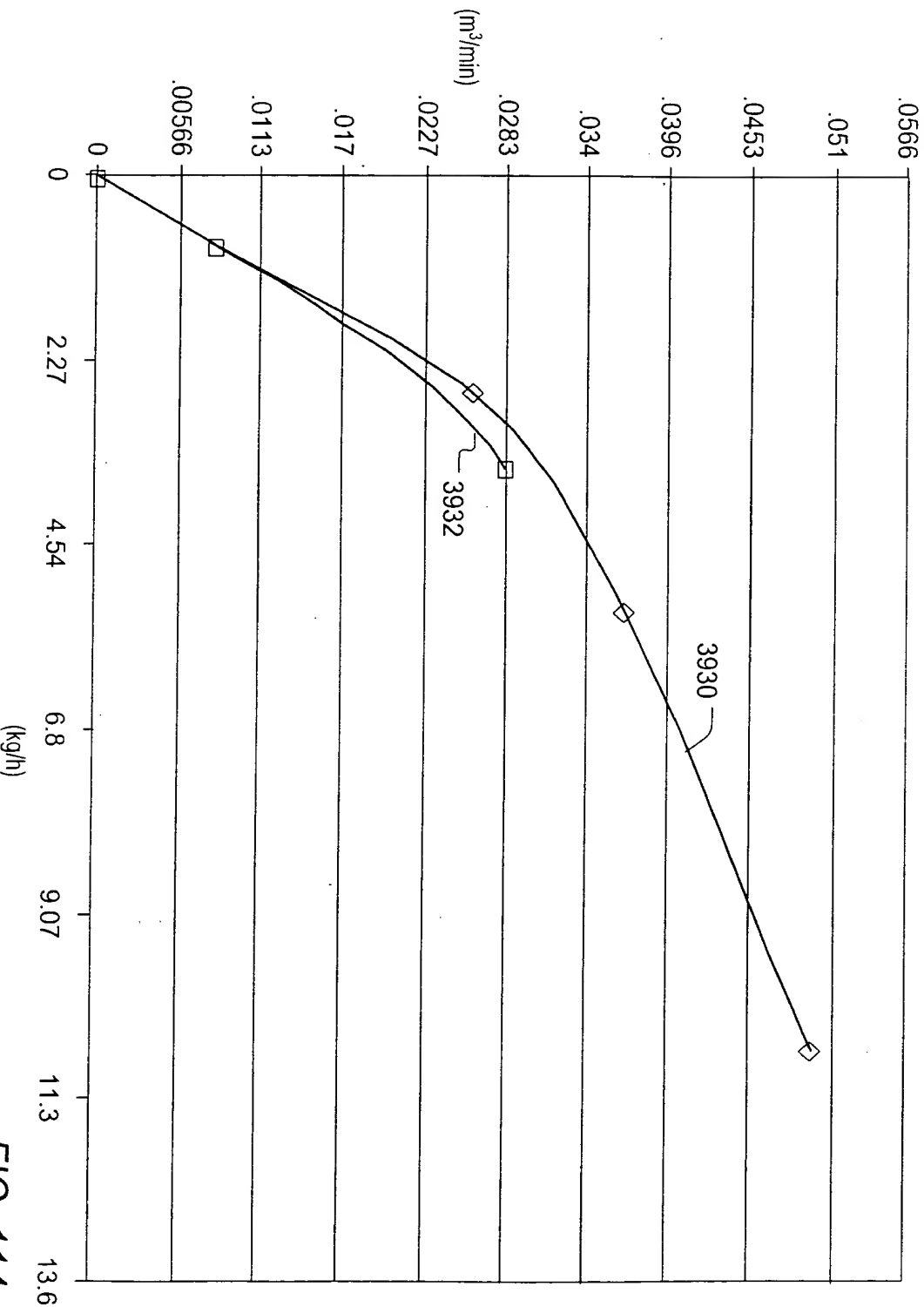


FIG. 114

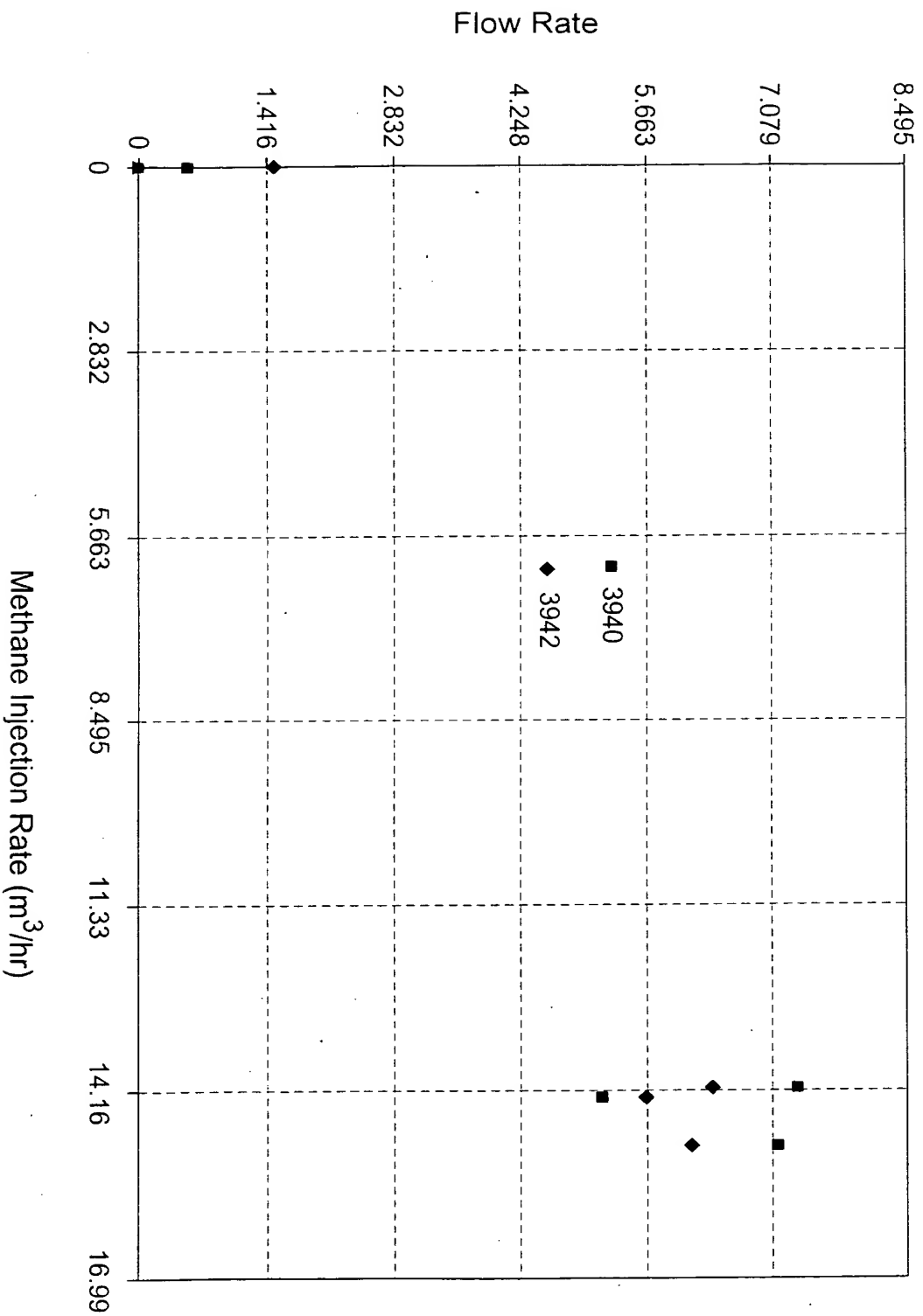


FIG. 115



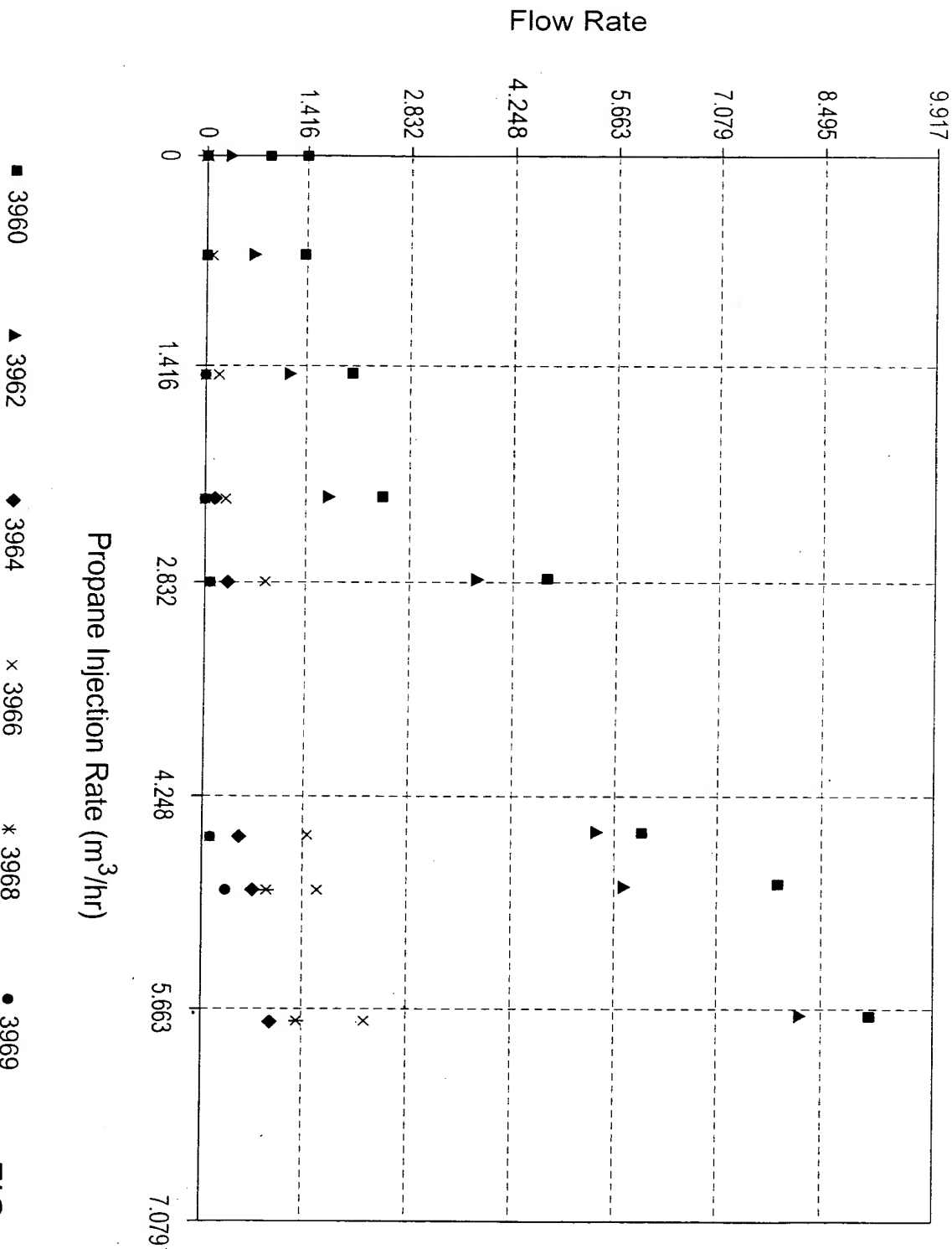


FIG. 117

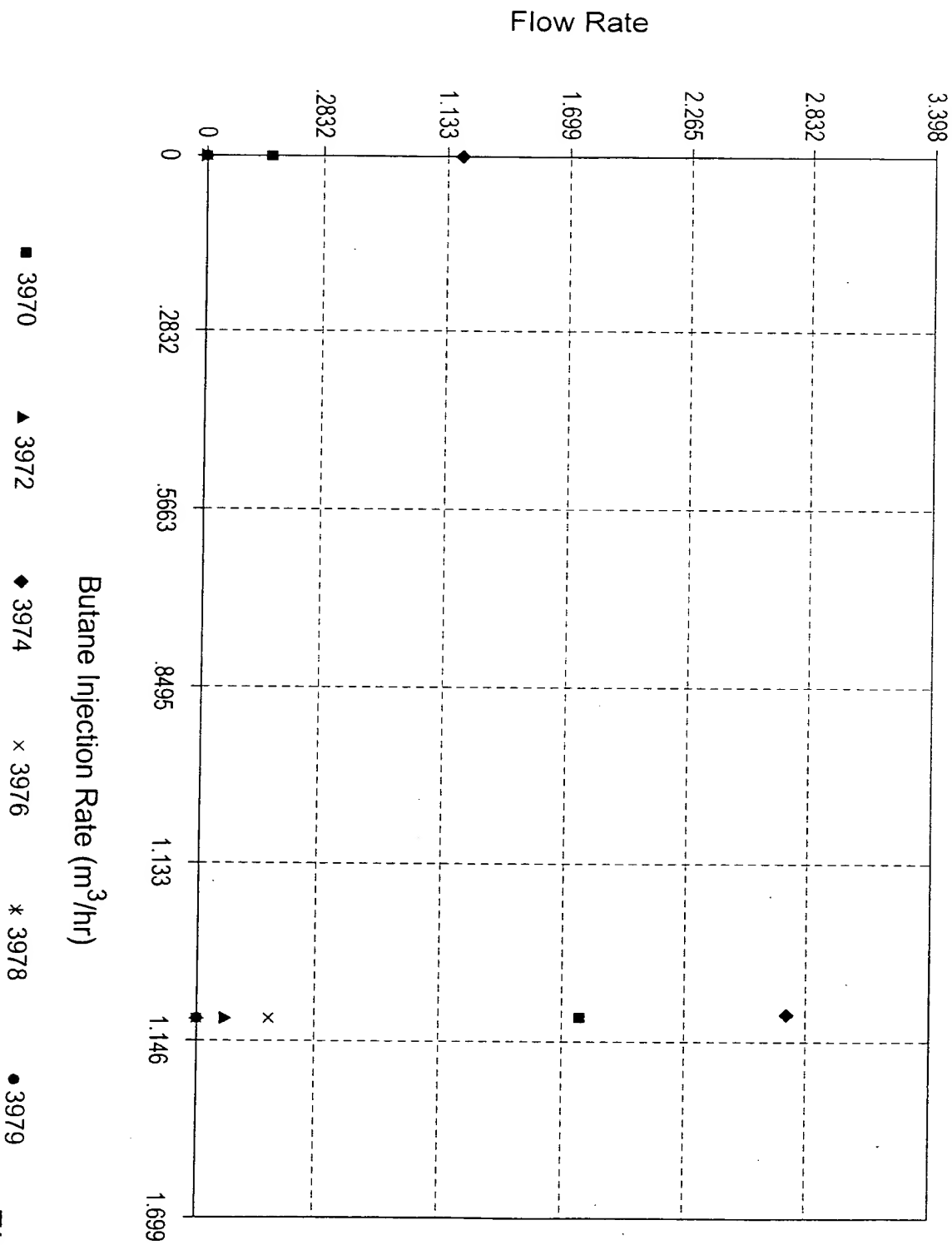


FIG. 118

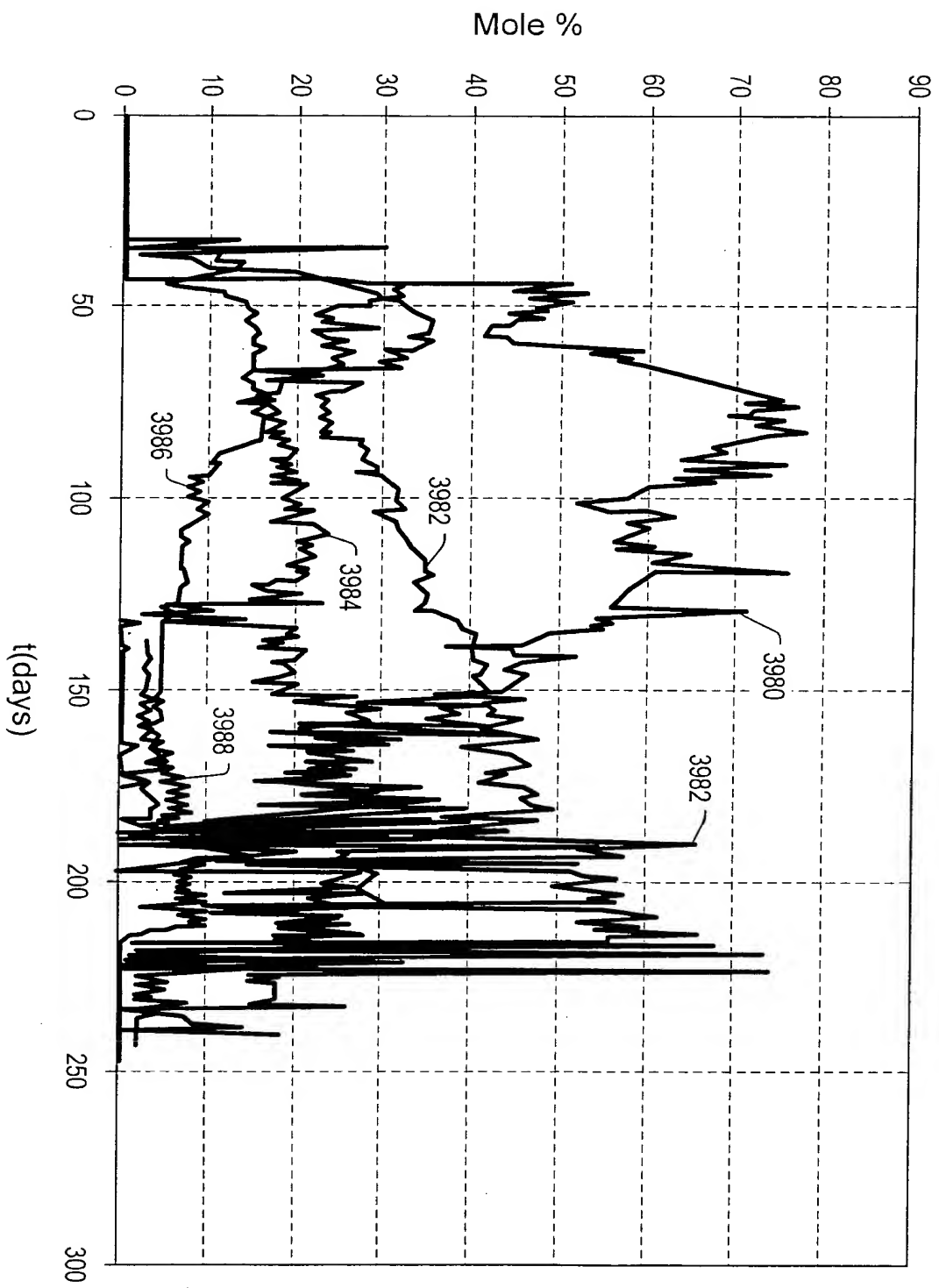


FIG. 119



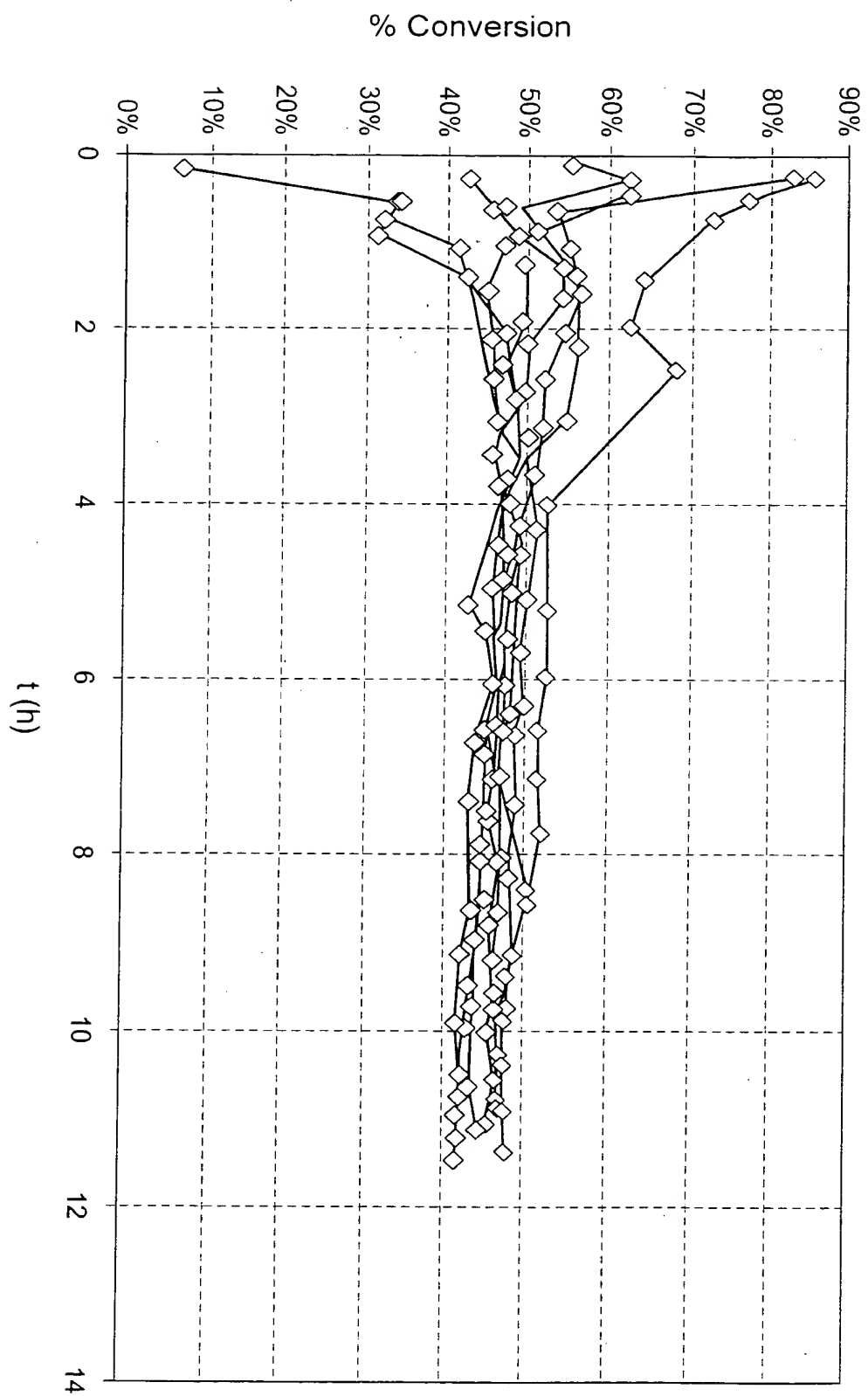


FIG. 120

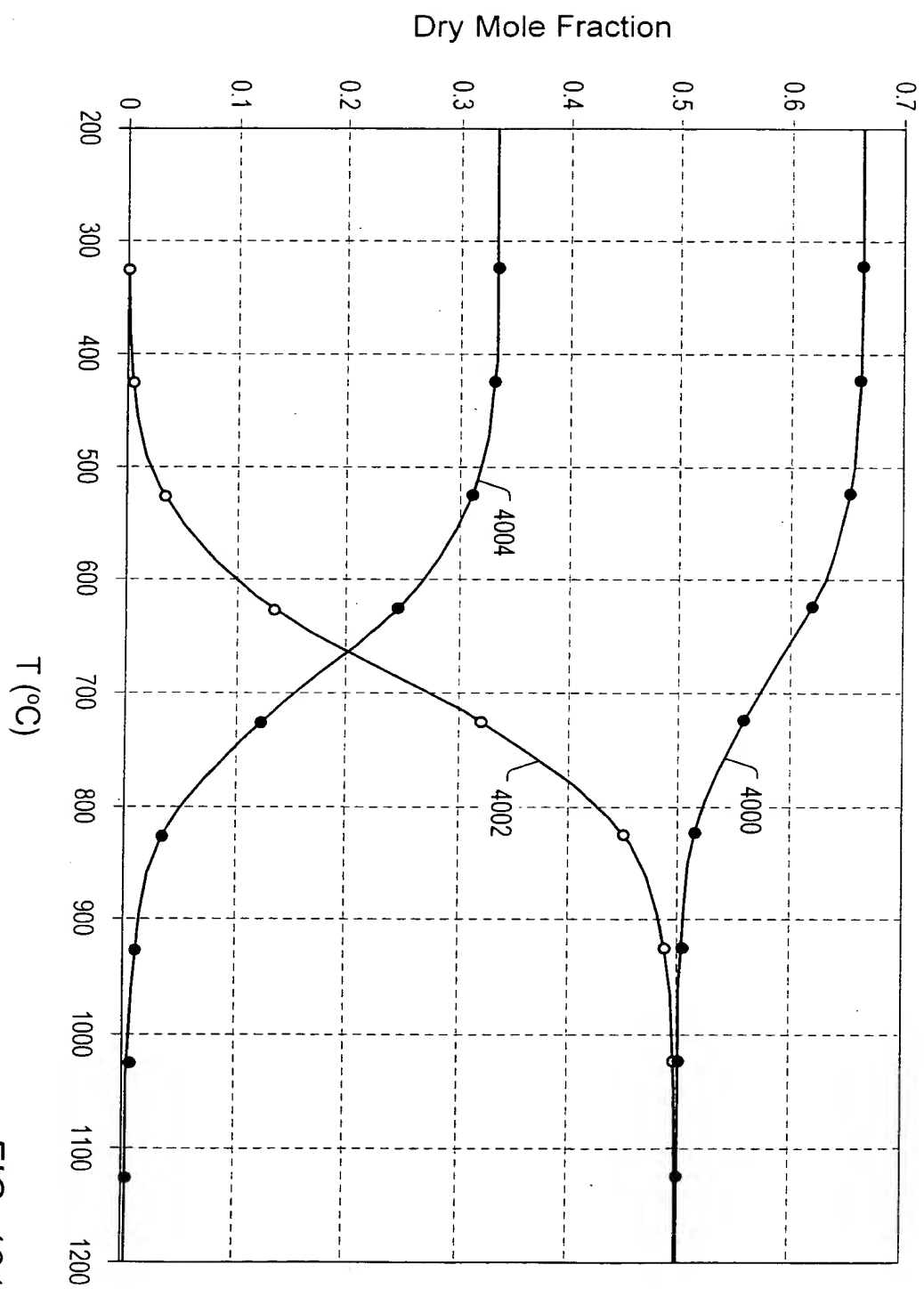


FIG. 121

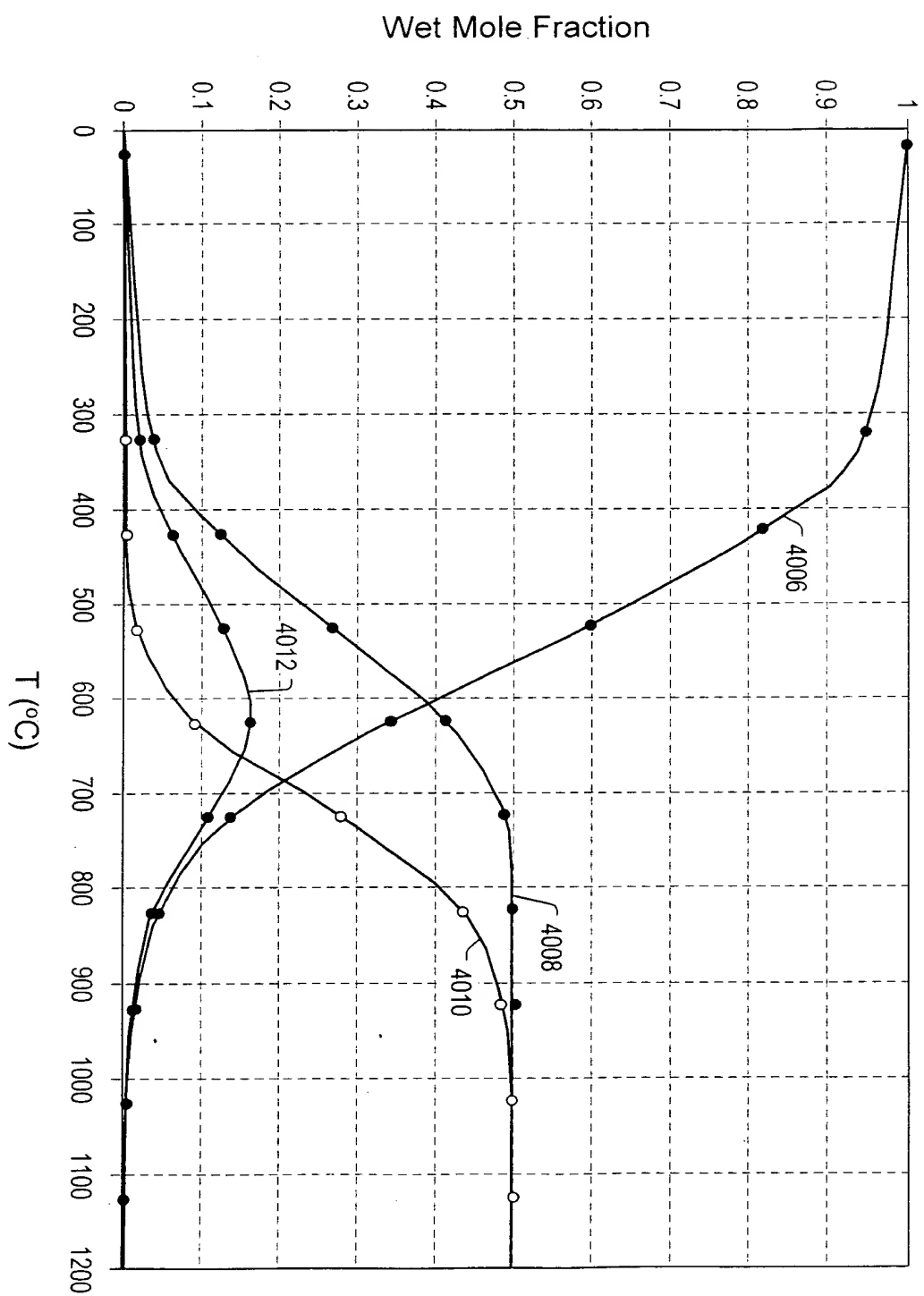


FIG. 122

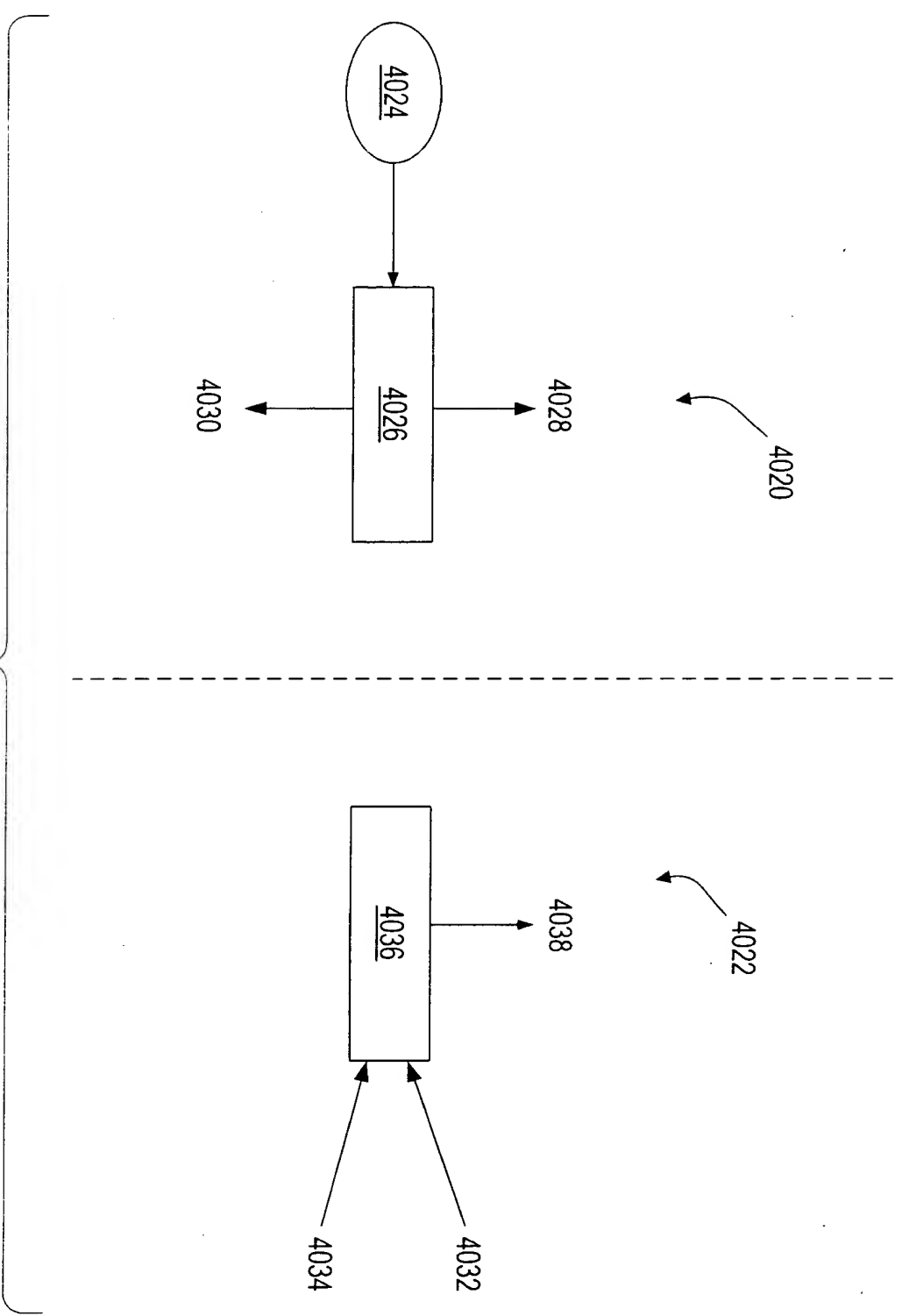


FIG. 124

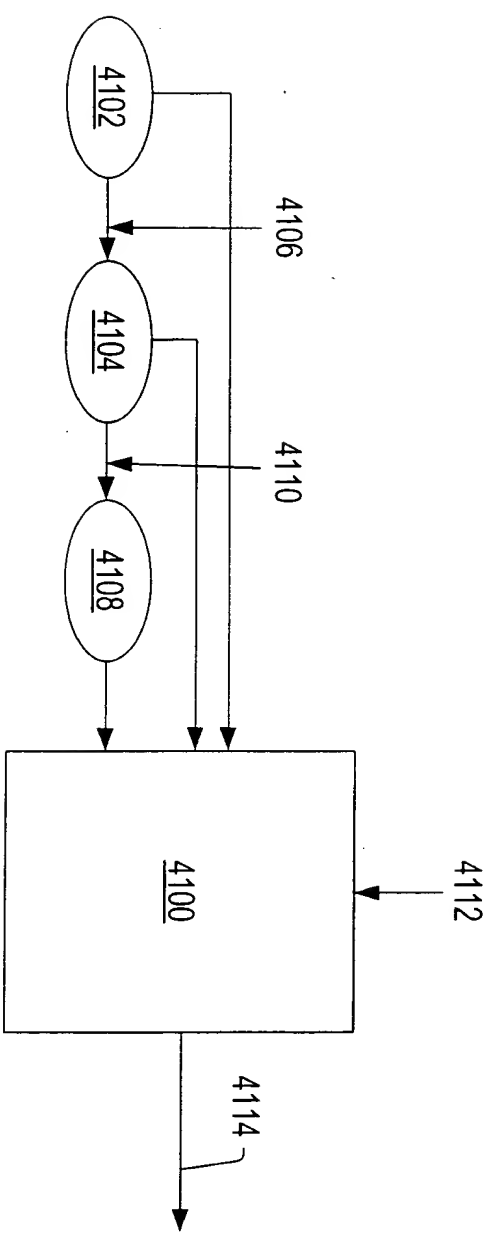


FIG. 124

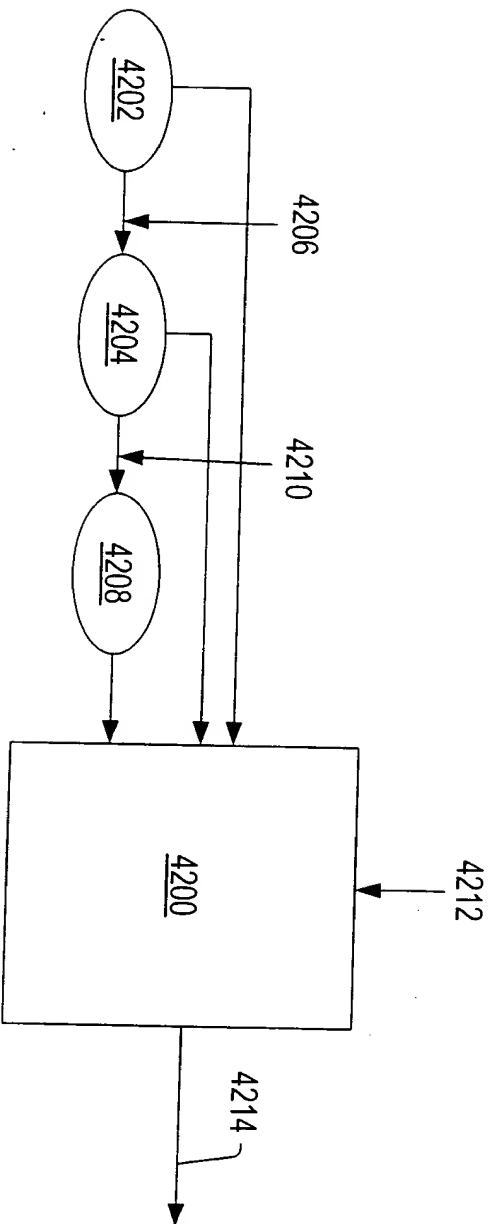


FIG. 125

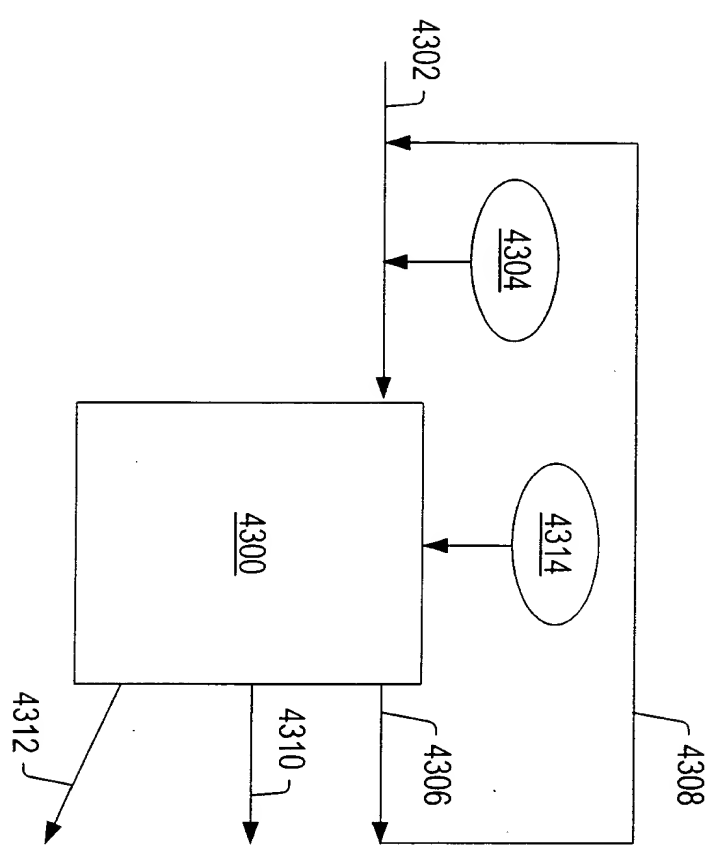


FIG. 126

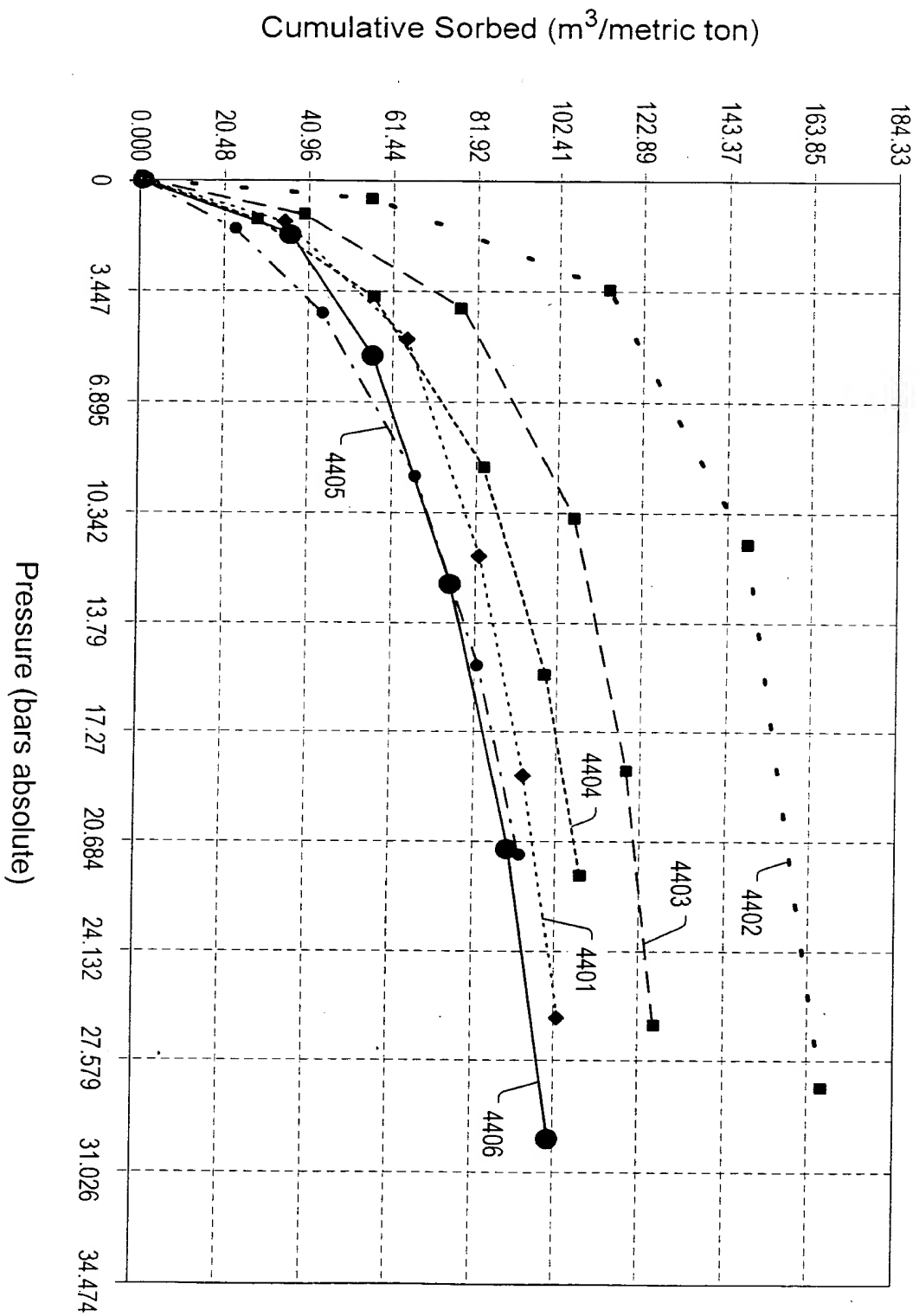


FIG. 127



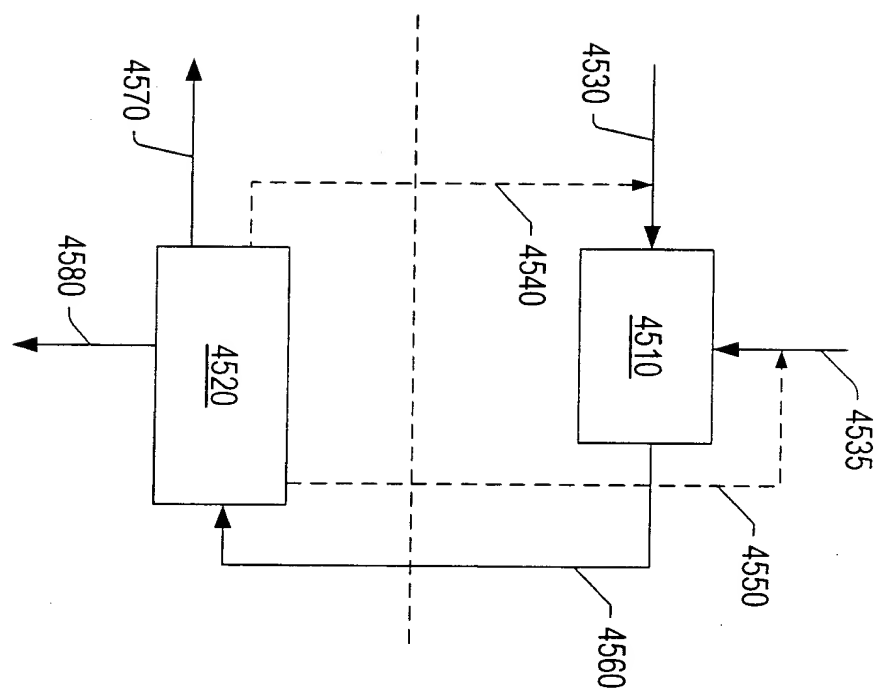


FIG. 128

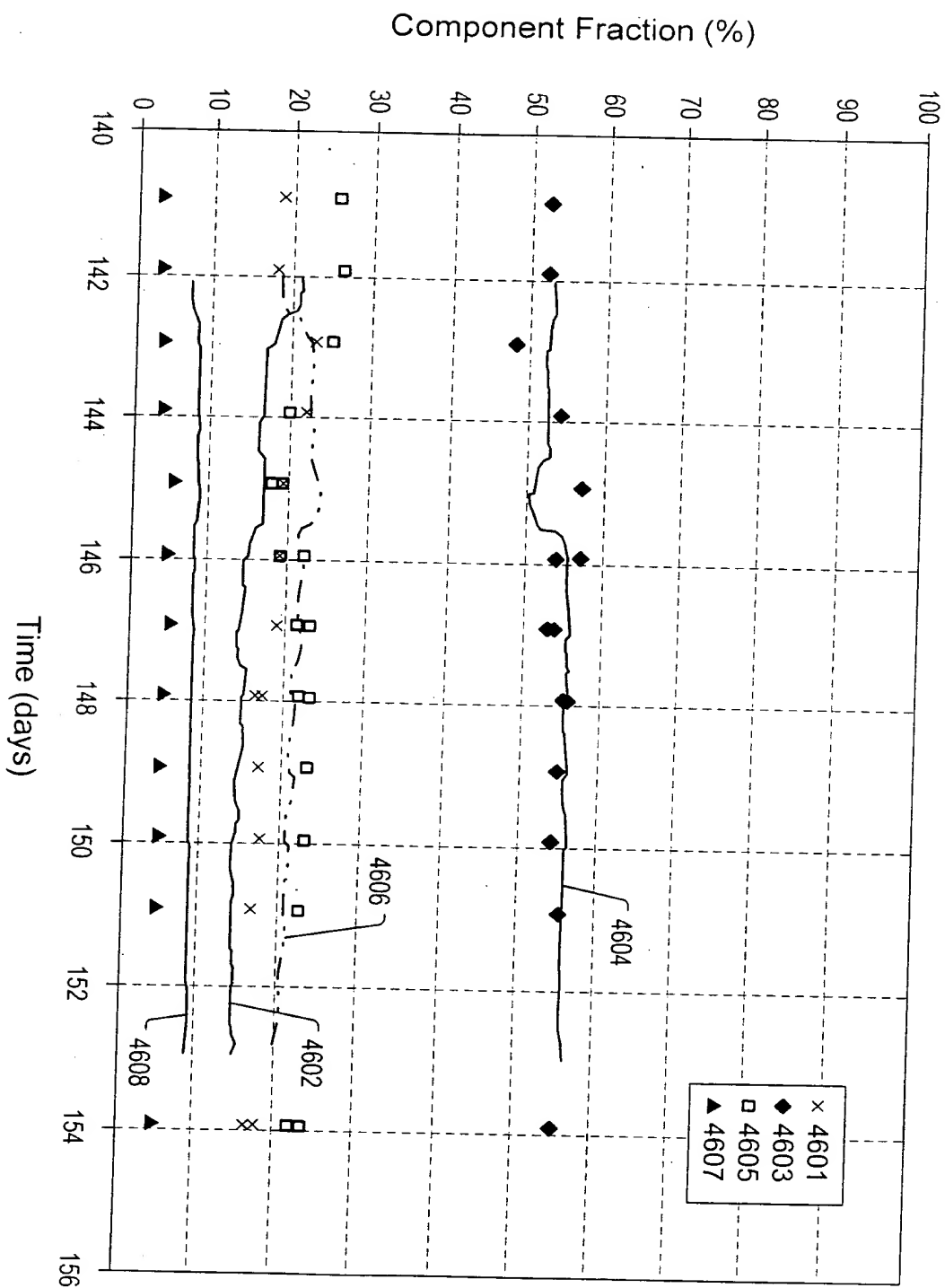
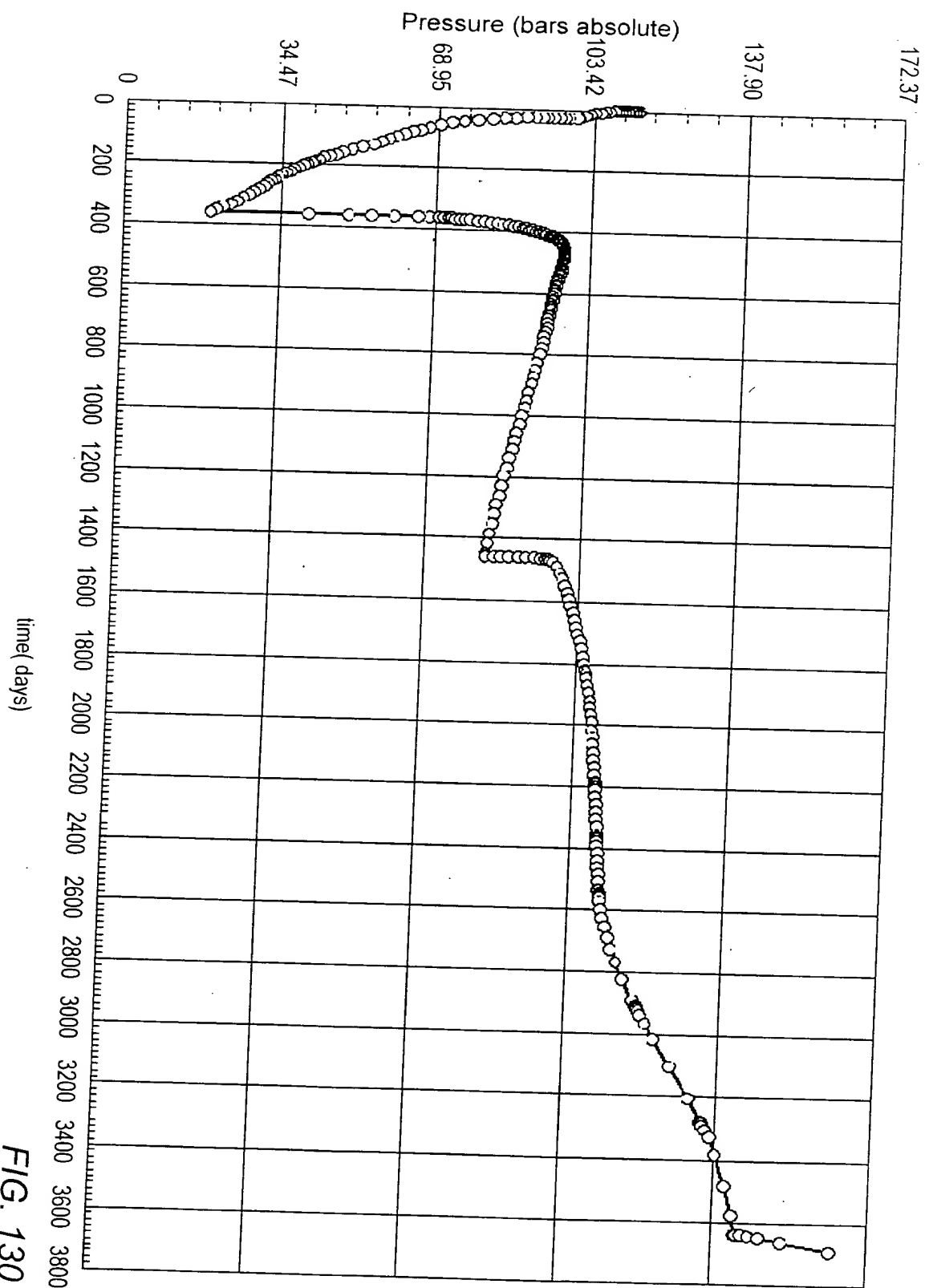


FIG. 129



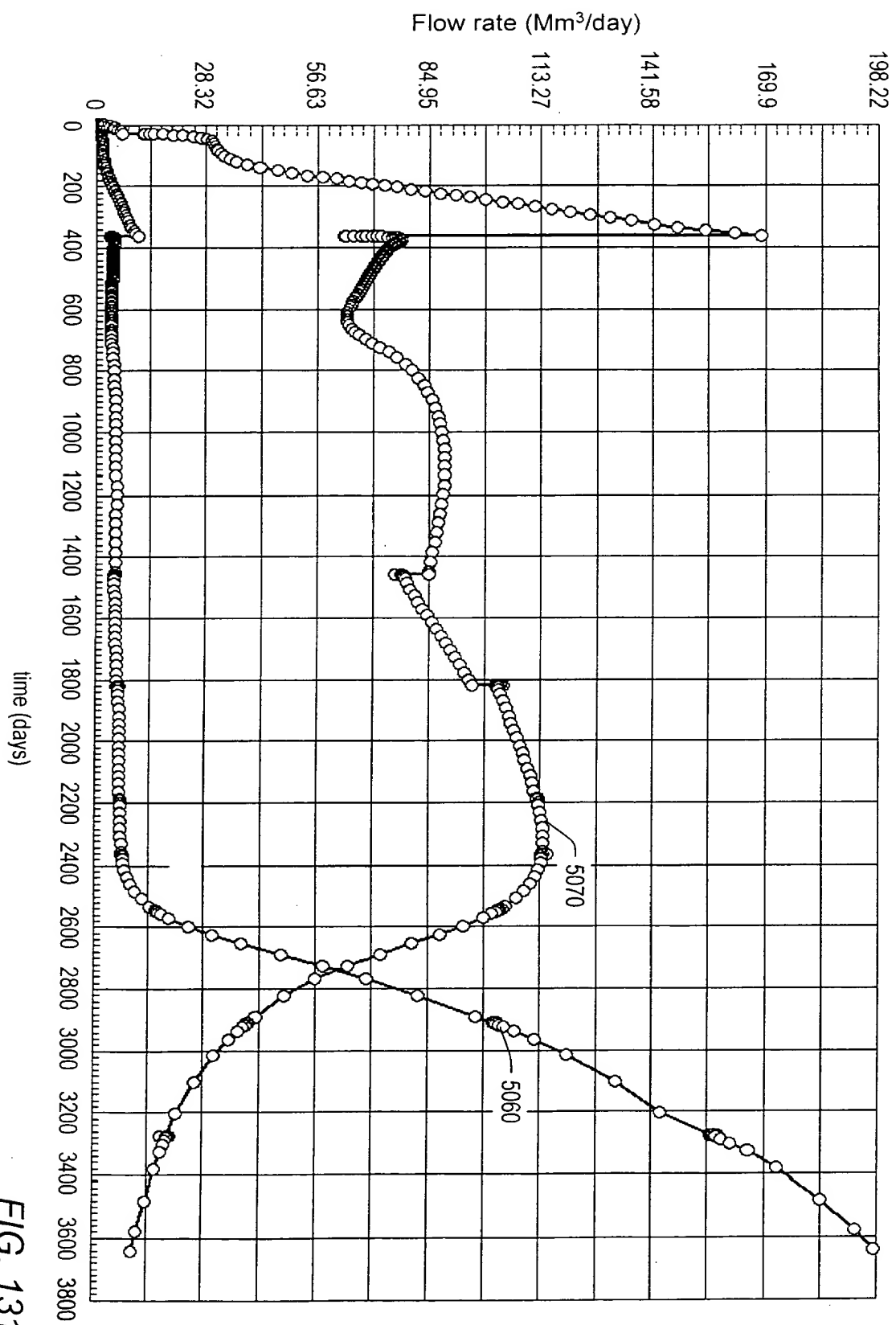


FIG. 131

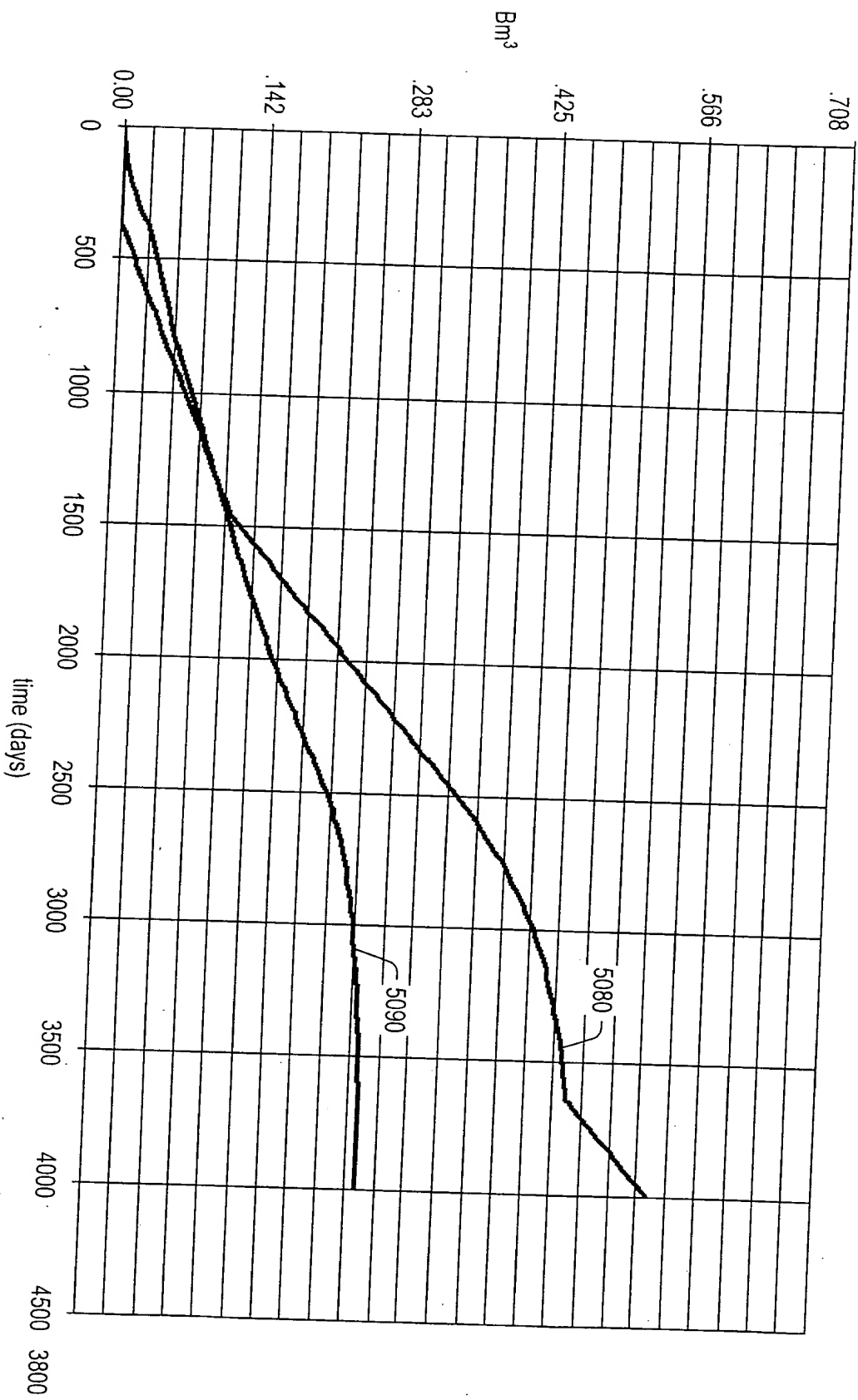


FIG. 132

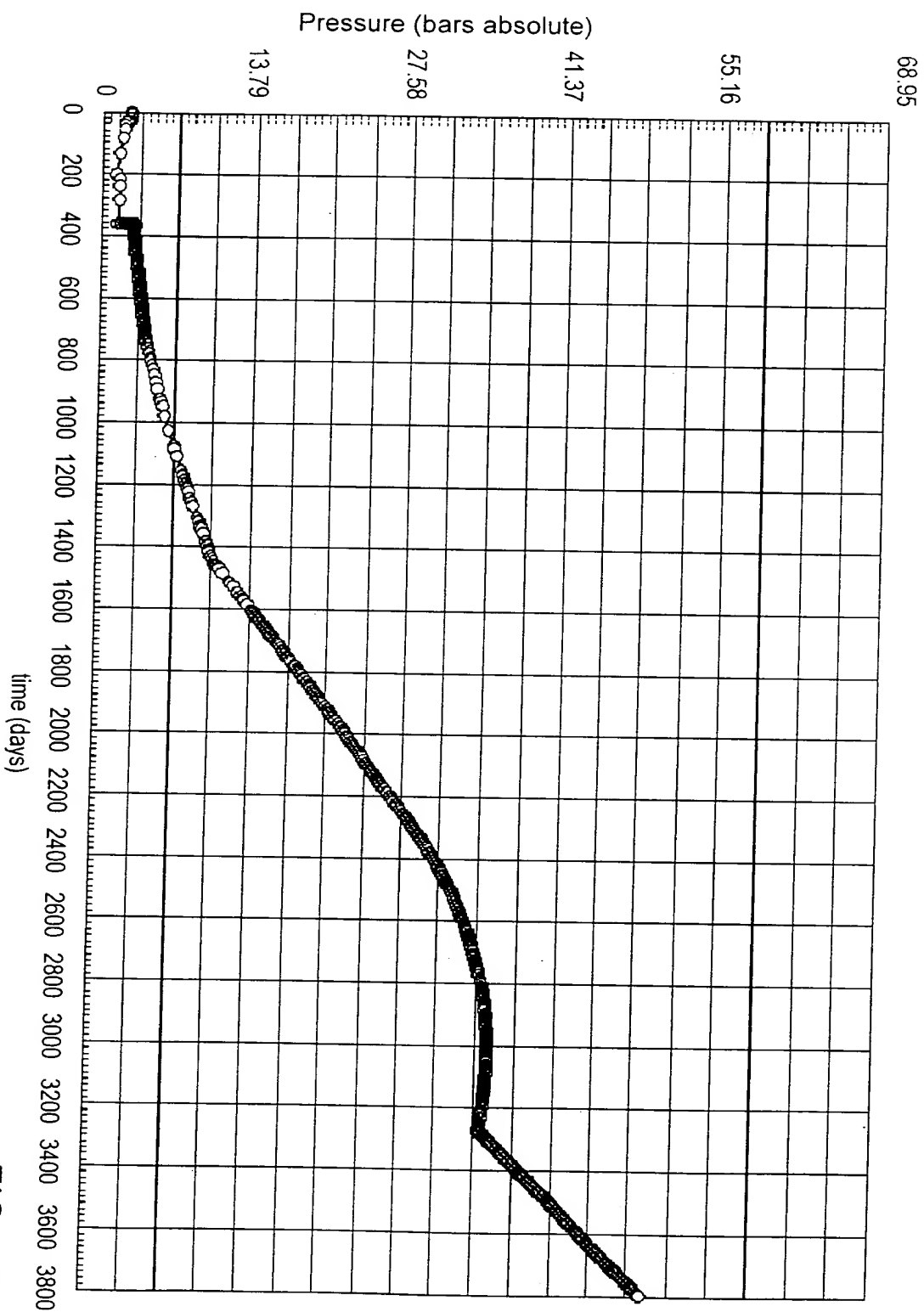


FIG. 133

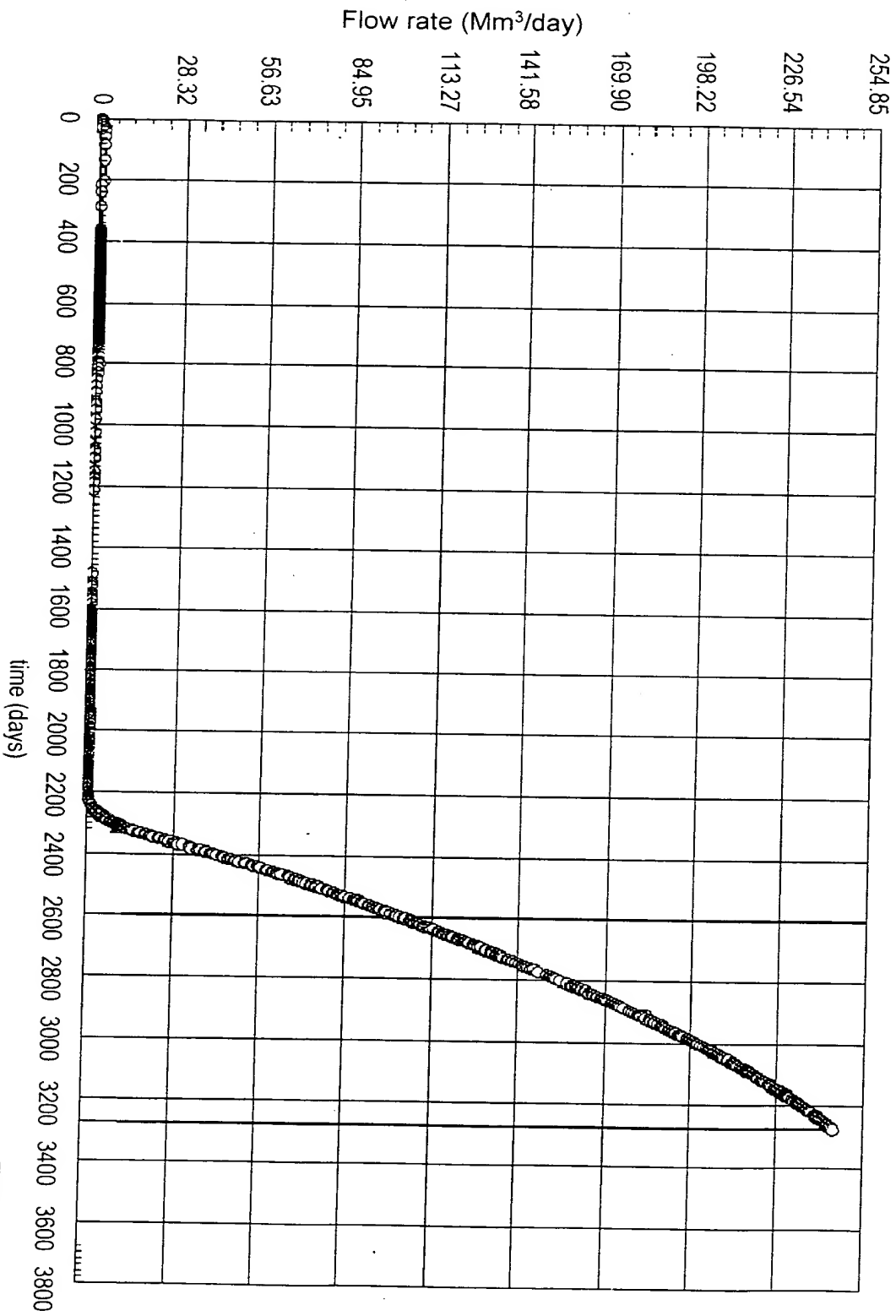


FIG. 134

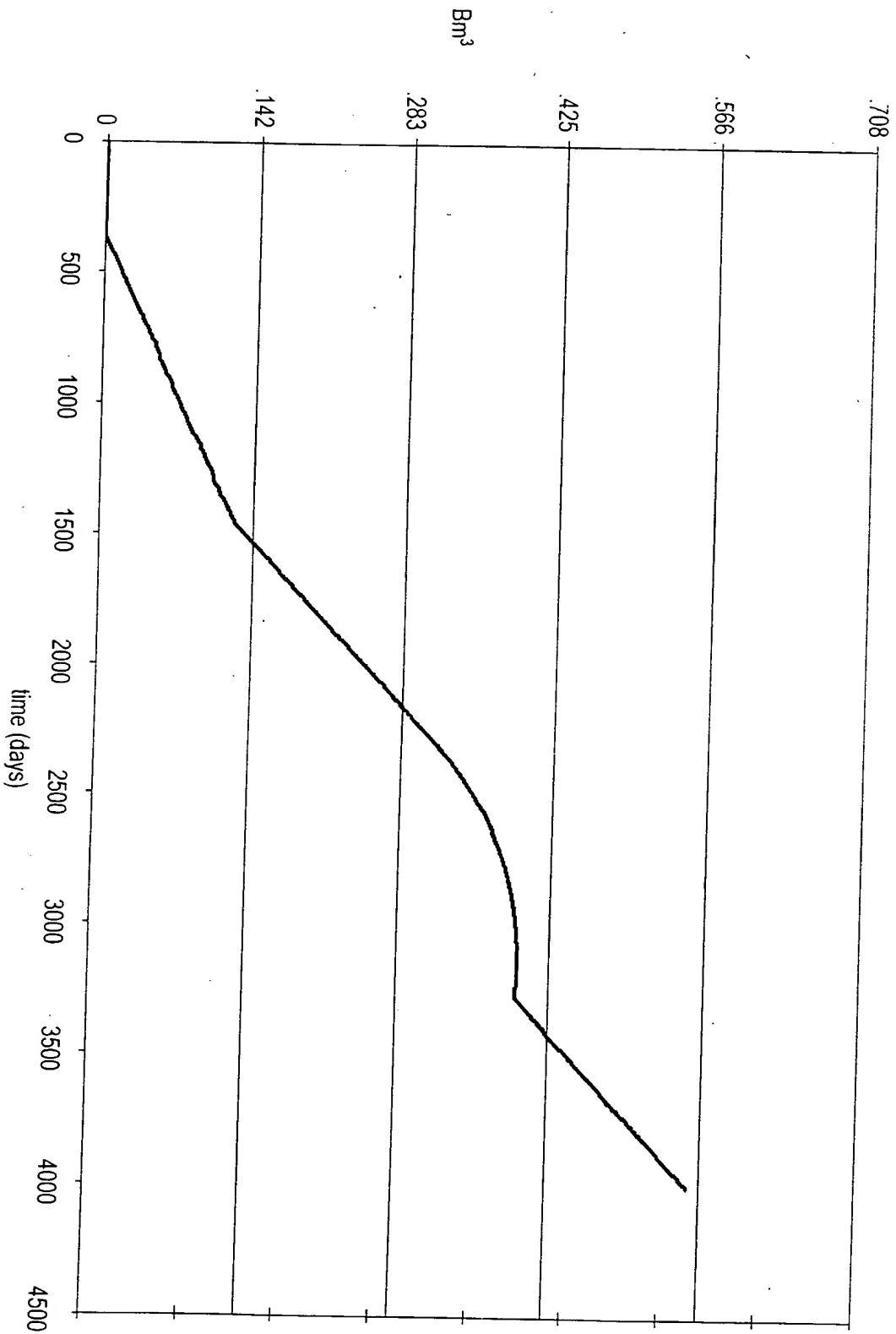


FIG. 135